

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER


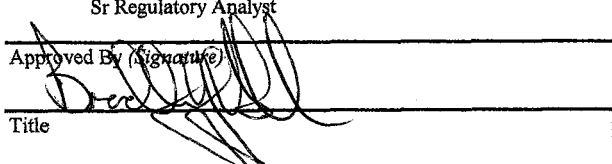
FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU-000577A
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name Ute Tribe
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP		7. If Unit or CA Agreement, Name and No.
3a. Address PO Box 173779 Denver, CO 80217-3779		8. Lease Name and Well No. Federal 920-23P
3b. Phone No. (include area code) Raleen White 720-929-6666		9. API Well No. 43-047-40546
4. Location of well (Report location clearly and in accordance with any State requirements.)* At surface 840' FSL 501' FEL SE/4 SE/4 Lat. 40.015746 Long. -109.625718 At proposed prod. zone 617339X 4430199Y 40.015738 -109.625098		10. Field and Pool, or Exploratory Natural Buttes Field
11. Sec., T., R., M., or Blk. and Survey or Area 23 T 9S R 20E S.L.B. & M.		12. County or Parish Uintah
13. State Utah		14. Distance in miles and direction from the nearest town or post office* Approximately 41 miles south of Vernal, Utah
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 840'	16. No. of acres in lease 2,091.18	17. Spacing Unit dedicated to this well 40 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. ±1,300'	19. Proposed Depth 10,400'	20. BLM/ BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, RT, GR, etc.) 4,851' GR KB	22. Approximate date work will start* ASAP	23. Estimated duration 10 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

- | | |
|--|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by existing bond on file(see item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/ or plans as may be required by the a authorized officer. |

25. Signature 	Name (Printed/ Typed) Raleen White	Date 2-13-2009
Title Sr Regulatory Analyst	E-mail: raleen.white@anadarko.com	Phone: 720-929-6666
Approved By (Signature) 	Name (Printed/ Typed) BRADLEY G. HILL	Date 02-24-09
Title Office ENVIRONMENTAL MANAGER		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

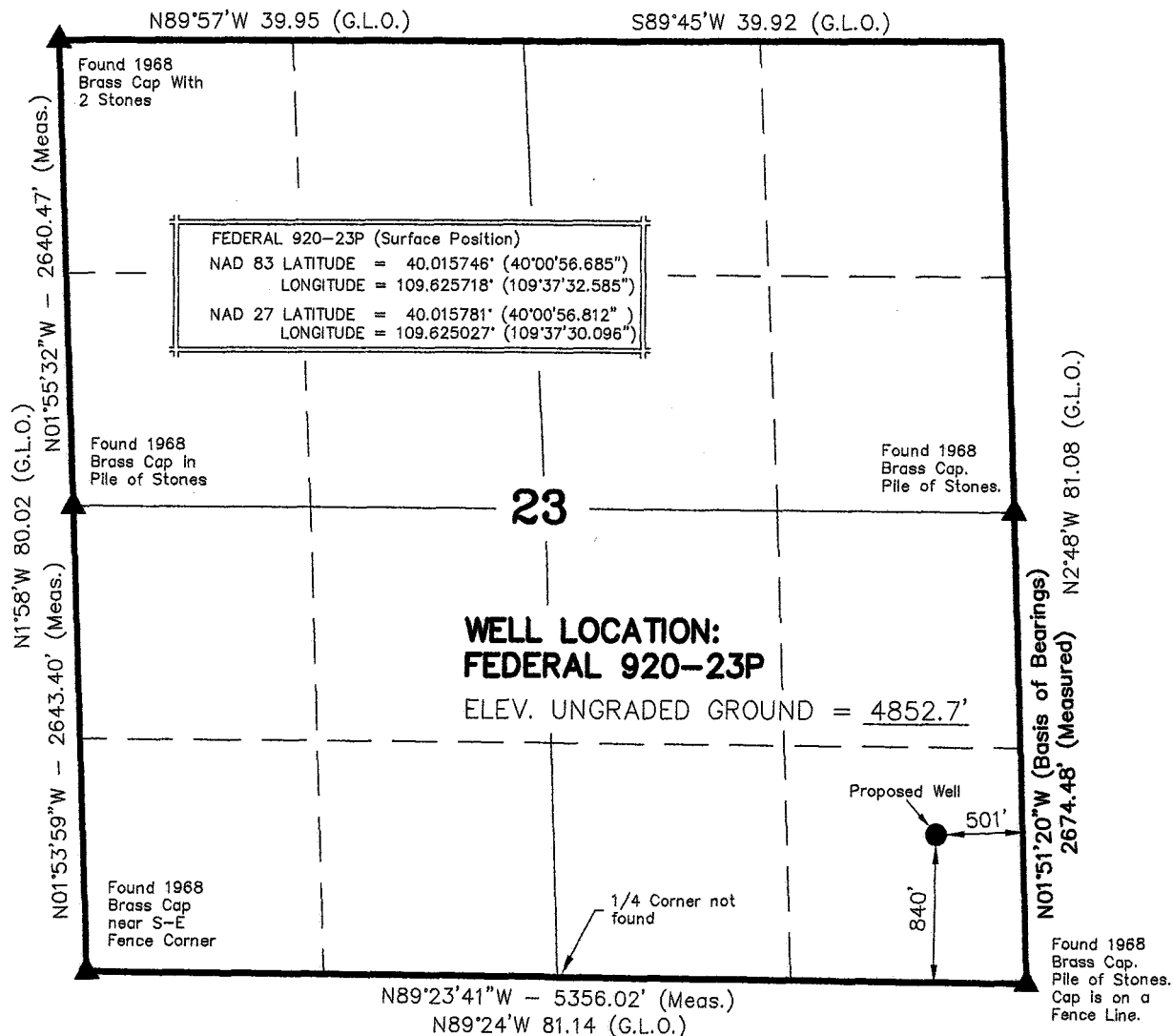
* (Instructions on page 2)

Federal Approval of this
Action is Necessary

DIV. OF OIL, GAS & MINING

RECEIVED
FEB 17 2009

T9S, R20E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines.
- 2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
- 3. Bearings are based on Global Positioning Satellite observations.
- 4. Basis of elevation is the Northwest Corner of Section 12, T9S, R20E, S.L.B.&M. The elevation of this Section Corner is shown on the Ouray SE 7.5 Min. Quadrangle as being 4676'.

Kerr-McGee
Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

FEDERAL 920-23P
WELL PLAT
840' FSL, 501' FEL
SE $\frac{1}{4}$ SE $\frac{1}{4}$ OF SECTION 23, T9S, R20E,
S.L.B.&M. UINTAH COUNTY, UTAH.

CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182



SURVEYOR'S CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

No. 362251
 KOLBY R. KAY
 REGISTERED LAND SURVEYOR
 REGISTRATION NO. 362251
 STATE OF UTAH

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 12-23-08	SURVEYED BY: M.S.B.	SHEET 1 OF 9
DATE DRAWN: 01-02-08	DRAWN BY: K.K.O.	
SCALE: 1" = 1000'	Date Last Revised: 1-21-09	

**Federal 920-23P
SESE Sec. 23, T9S, R20E
UINTAH COUNTY, UTAH
UTU-000577A**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. **Estimated Tops of Important Geologic Markers:**
Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,681'	
Birds Nest	1,923'	Water
Mahogany	2,430'	Water
Wasatch	5,034'	Gas
Mesaverde	8,234'	Gas
MVU2	9,129'	Gas
MVL1	9,539'	Gas
TD	10,400'	

3. **Pressure Control Equipment** (Schematic Attached)

Please refer to the attached Drilling Program.

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,400' TD, approximately equals 6,641 psi (calculated at 0.64 psi/foot).

Maximum anticipated surface pressure equals approximately 4,353 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variances:**

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- *Blowout Prevention Equipment (BOPE) requirements;*
- *Mud program requirements; and*
- *Special drilling operation (surface equipment placement) requirements associated with air drilling.*

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background

In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet.

The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

Onshore Order 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump which is located near the reserve pit (see attachment) will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement) Requirements

Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, Onshore Order 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

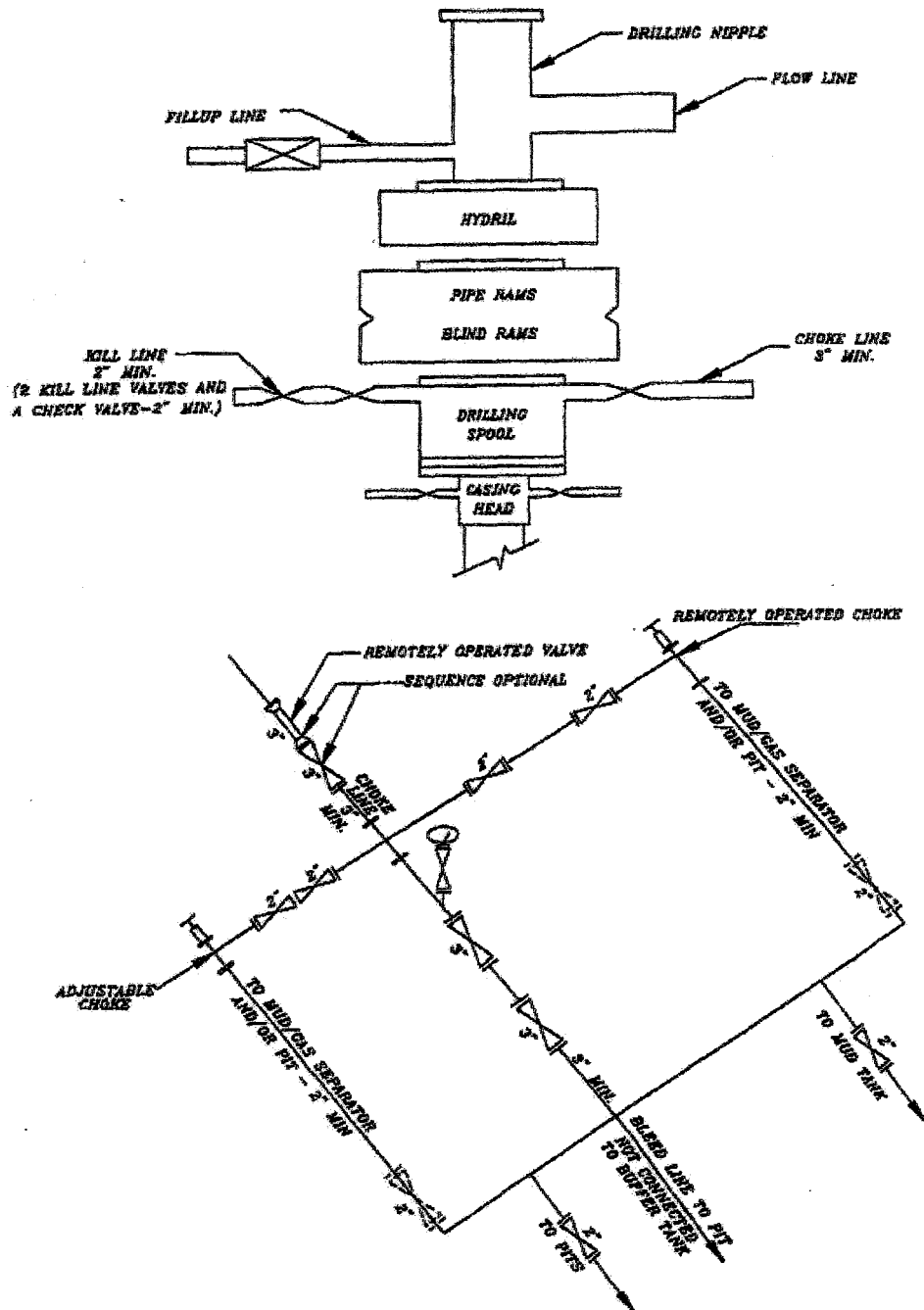
Conclusion

The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. **Other Information:**

Please refer to the attached Drilling Program.

EXHIBIT A
Federal 920-23P



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

**Federal 920-23P
SESE Sec. 23 T9S R20E
UINTAH COUNTY, UTAH
UTU-000577A**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Refer to the attached location directions.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

2. Planned Access Roads:

Approximately $\pm 3,150'$ of new access road is proposed. Refer to Topo Map B.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

3. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

Please see the Natural Buttes Unit SOP.

Refer to Topo Map D for the location of the proposed pipelines.

Variances to Best Management Practices (BMPs) Requested:

This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Shadow gray (2.5Y 6/2), a non-reflective earthtone.

Interim Surface Reclamation Plan:

This exception is requested due to the current twin and multi-well program. If determined that this well will not be a candidate for either twinning &/or multi-well the operator shall spread the topsoil pile on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E, Pipeline Facility Sec. 36, T9S, R20E, Goat Pasture Evaporation Pond SW/4 Sec. 16, T10S, R22E, Bonanza Evaporation Pond Sec. 2, T10S, R23E (*Request is in lieu of filing Form 3160-5, after initial production*).

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

9. **Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

Location size may change prior to the drilling of the well due to the current rig availability. If the proposed location is not large enough to accommodate the drilling rig. The location will be re-surveyed and a form 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.

Operator shall call the BIA for the seed mixture when the final reclamation occurs.

11. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026
(435) 722-5141

The mineral ownership is listed below:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

12. Stipulations/Notices/Mitigation:

There are no stipulations or notices for this location.

13. Other Information:

A Class III archaeological survey and Paleo survey has been performed and will be submitted upon receipt.

14. Lessee's or Operator's Representative & Certification:

Raleen White
Sr. Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779
(720) 929-6666

Tommy Thompson
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
P.O. Box 173779
Denver, CO 80217-3779
(720) 929-6724

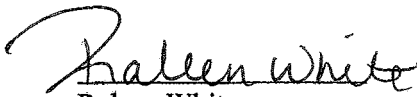
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under the terms and conditions of the lease for the operations conducted upon leased lands.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

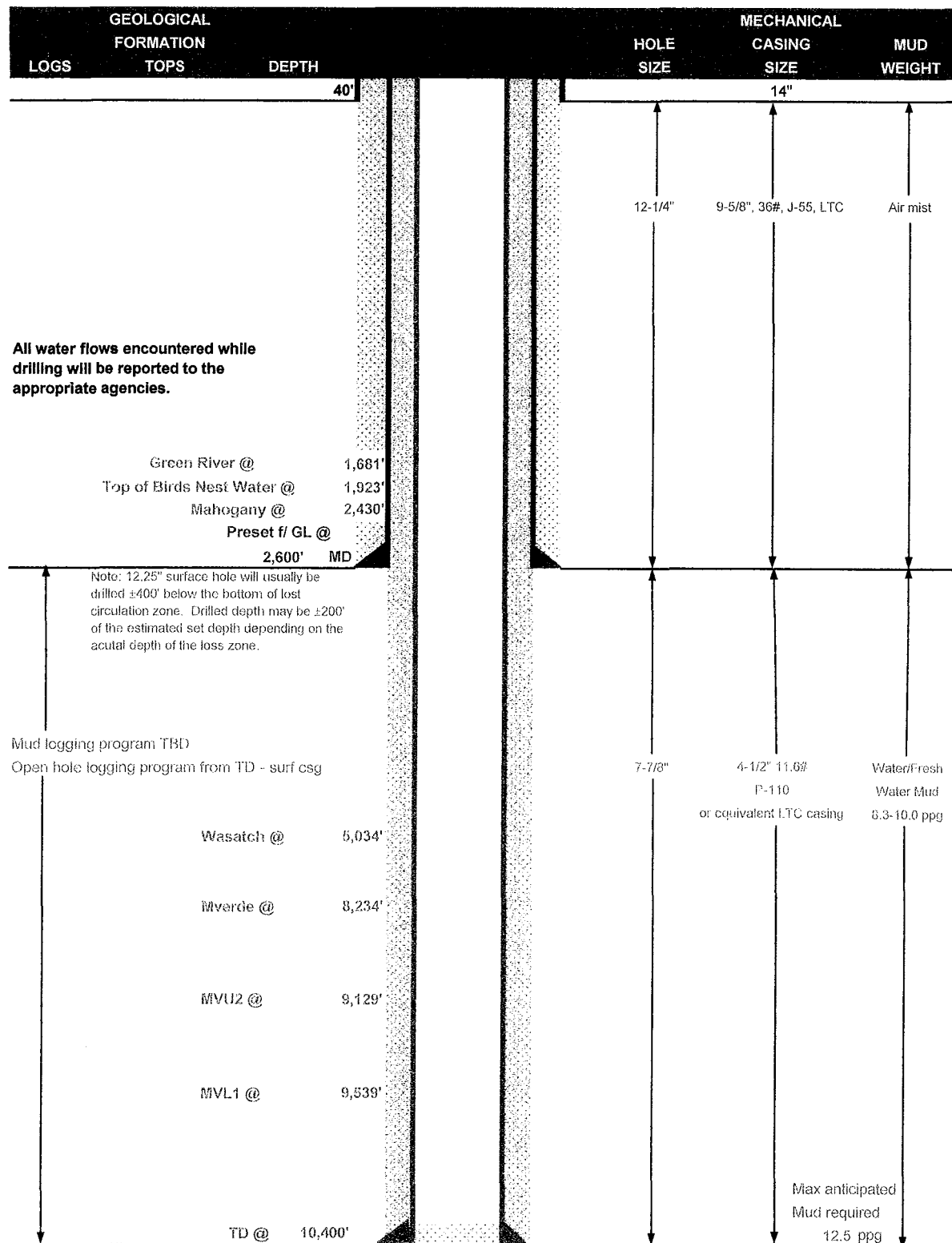
I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.


Raleen White

2/13/2009
Date



COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	February 9, 2009
WELL NAME	Federal 920-23P	TD	10,400' MD/TVD
FIELD	Natural Buttes	COUNTY	Uintah
		STATE	Utah
ELEVATION	4,851' GL	KB	4,866'
SURFACE LOCATION	SE/4 SE/4 840' FSL 501' FEL	Sec 23 T 9S R 20E	BHL Straight Hole
	Latitude: 40.015746	Longitude: -109.625718	NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), BIA (SURFACE), UDOGM, Tri-County Health Dept.		





KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'						
SURFACE	9-5/8"	0 to 2600	36.00	J-55	LTC	3,520	2,020	453,000
PRODUCTION	4-1/2"	0 to 10400	11.60	P-110	LTC	0.79	1.66	6.16
						10,690	7,580	279,000
						2.39	1.12	2.65

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 12.5 ppg)

0.22 psi/ft = gradient for partially evac wellbore

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buo.Fact. of water)

MASP 4,353 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

(Burst Assumptions: TD = 12.5 ppg)

0.64 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buo.Fact. of water)

MABHP 6,641 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ .25 pps flocele				
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt	50		15.60	1.18
			+ 2% CaCl + .25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	1500	Prem cmt + 16% Gel + 10 pps gilsonite	170	35%	11.00	3.82
			+ .25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ .25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,530'	Premium Lite II + 3% KCl + 0.25 pps	500	60%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,870'	50/50 Poz/G + 10% salt + 2% gel	1640	60%	14.30	1.31
			+ .1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip.

Maintain safety valve and Inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

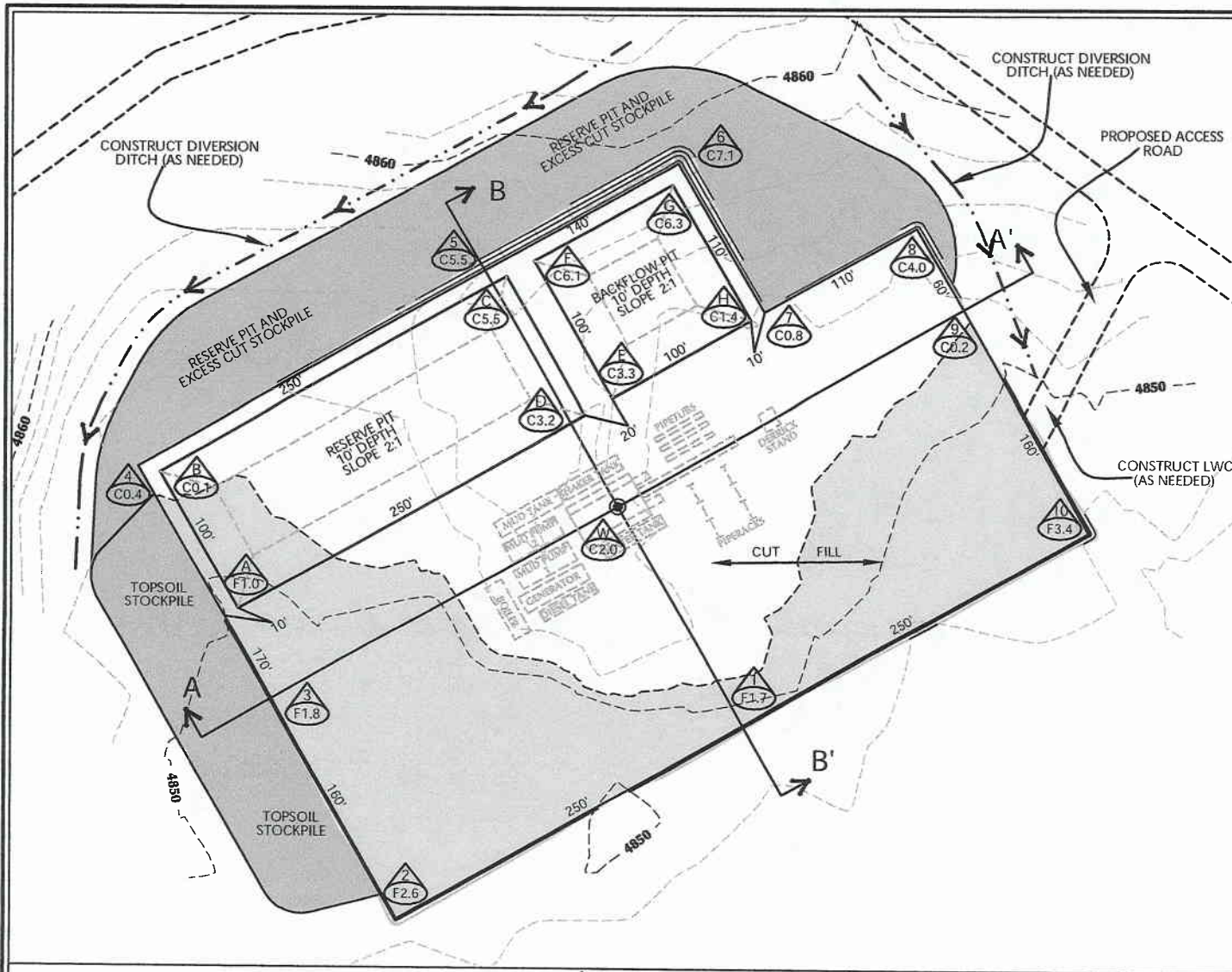
John Huycke / Grant Schluender

DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:



WELL PAD LEGEND

- WELL LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)

WELL PAD FEDERAL 920-23P QUANTITIES

EXISTING GRADE @ LOC. STAKE = 4,852.7'
 FINISHED GRADE ELEVATION = 4,850.7'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 4,761 C.Y.
 TOTAL FILL FOR WELL PAD = 4,554 C.Y.
 TOPSOIL @ 6" DEPTH = 2,945 C.Y.
 EXCESS MATERIAL = 207 C.Y.
 TOTAL DISTURBANCE = 3.65 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 25,880 BARRELS
 RESERVE PIT VOLUME
 +/- 7,185 CY
 BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
 +/- 8,780 BARRELS
 BACKFLOW PIT VOLUME
 +/- 2,520 CY

KERR-MCGEE OIL & GAS ONSHORE L.P.

1099 18th Street - Denver, Colorado 80202



CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

FEDERAL 920-23P
 WELL PAD - LOCATION LAYOUT
 840' FSL, 501' FEL
 SE1/4 SE1/4, SECTION 23, T9S, R20E,
 S.L.B.&M., UINTAH COUNTY, UTAH

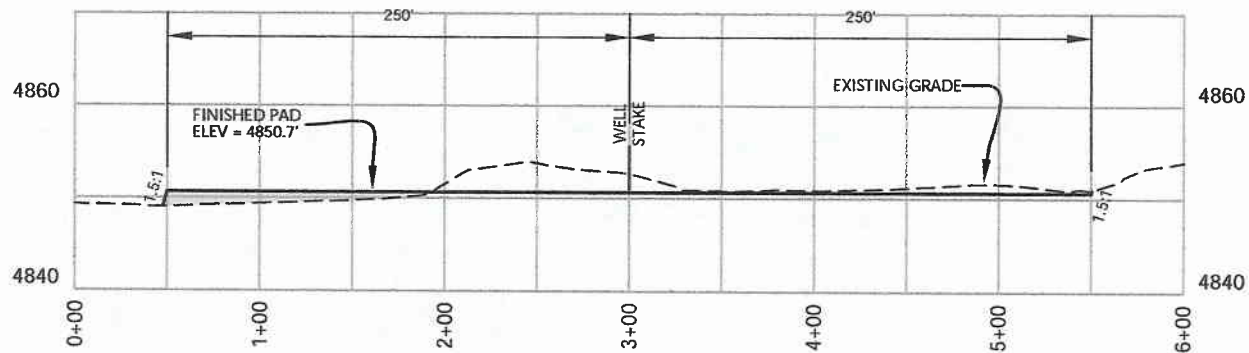
Scale: 1"=100'	Date: 1/21/09	SHEET NO:
REVISED:	BY DATE	2 2 OF 9



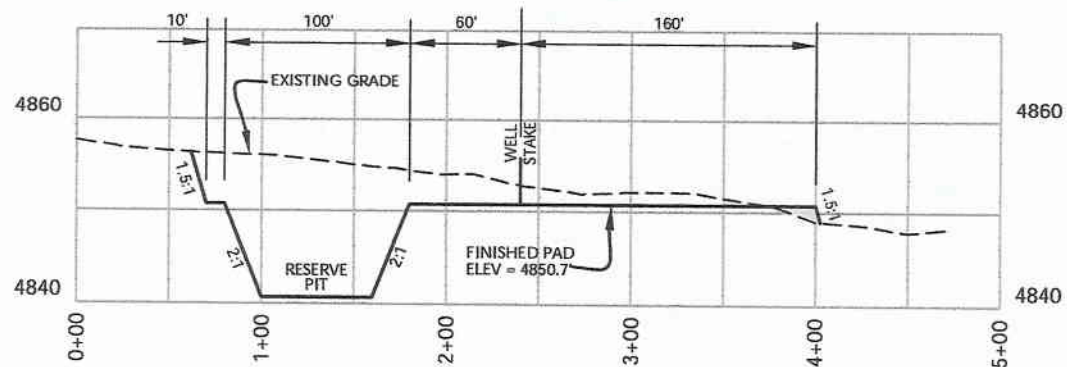
HORIZONTAL 0 50 100 1" = 100'
 2' CONTOURS

Timberline (435) 789-1365
 Engineering & Land Surveying, Inc.
 38 WEST 100 NORTH VERNAL, UTAH 84078

K:\VADARIO\2008_31_NBU_TRIBAL_2\DWGS\WELL_SEC-15 THRU 27_34.dwg, 1/21/2009 10:07:31 AM, PDF-XChange for AcadPlot Pro



CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS
MAXIMUM RESERVE PIT DEPTH.

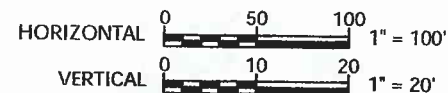
**KERR-MCGEE OIL & GAS
ONSHORE L.P.**
1099 18th Street - Denver, Colorado 80202



CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

**FEDERAL 920-23P
WELL PAD - CROSS SECTIONS
840' FSL, 501' FEL
SE1/4 SE1/4, SECTION 23, T.9S., R.20E.
S.L.B.&M., UTAH COUNTY, UTAH**

Scale: 1"=100'	Date: 1/21/09	SHEET NO:
REVISD:	BY DATE	3 3 OF 9



Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078

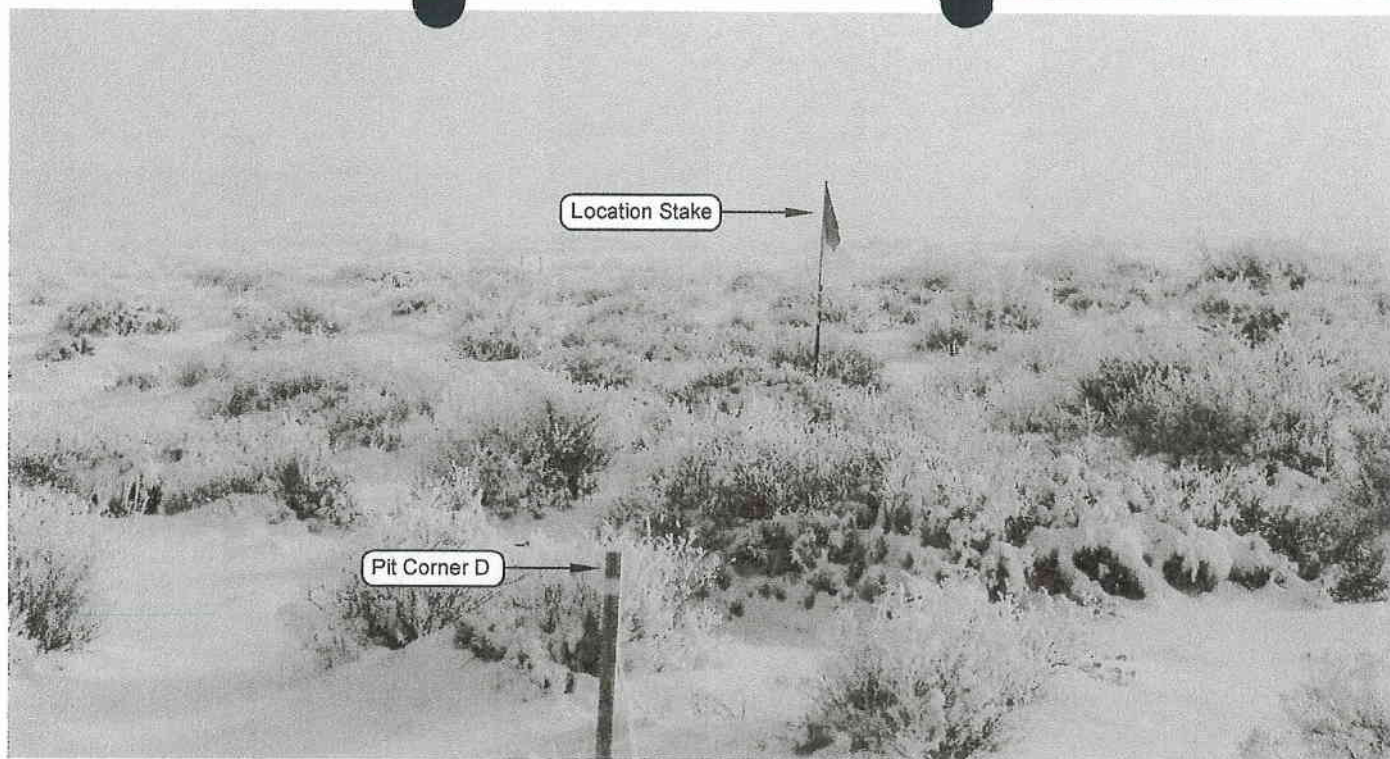


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: SOUTHEASTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHWESTERLY

Kerr-McGee
Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202

FEDERAL 920-23P
 840' FSL, 501' FEL
 SE $\frac{1}{4}$ SE $\frac{1}{4}$ OF SECTION 23, T9S, R20E,
 S.L.B.&M. UTAH COUNTY, UTAH.



CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

LOCATION PHOTOS

TAKEN BY: M.S.B.

DRAWN BY: K.K.O.

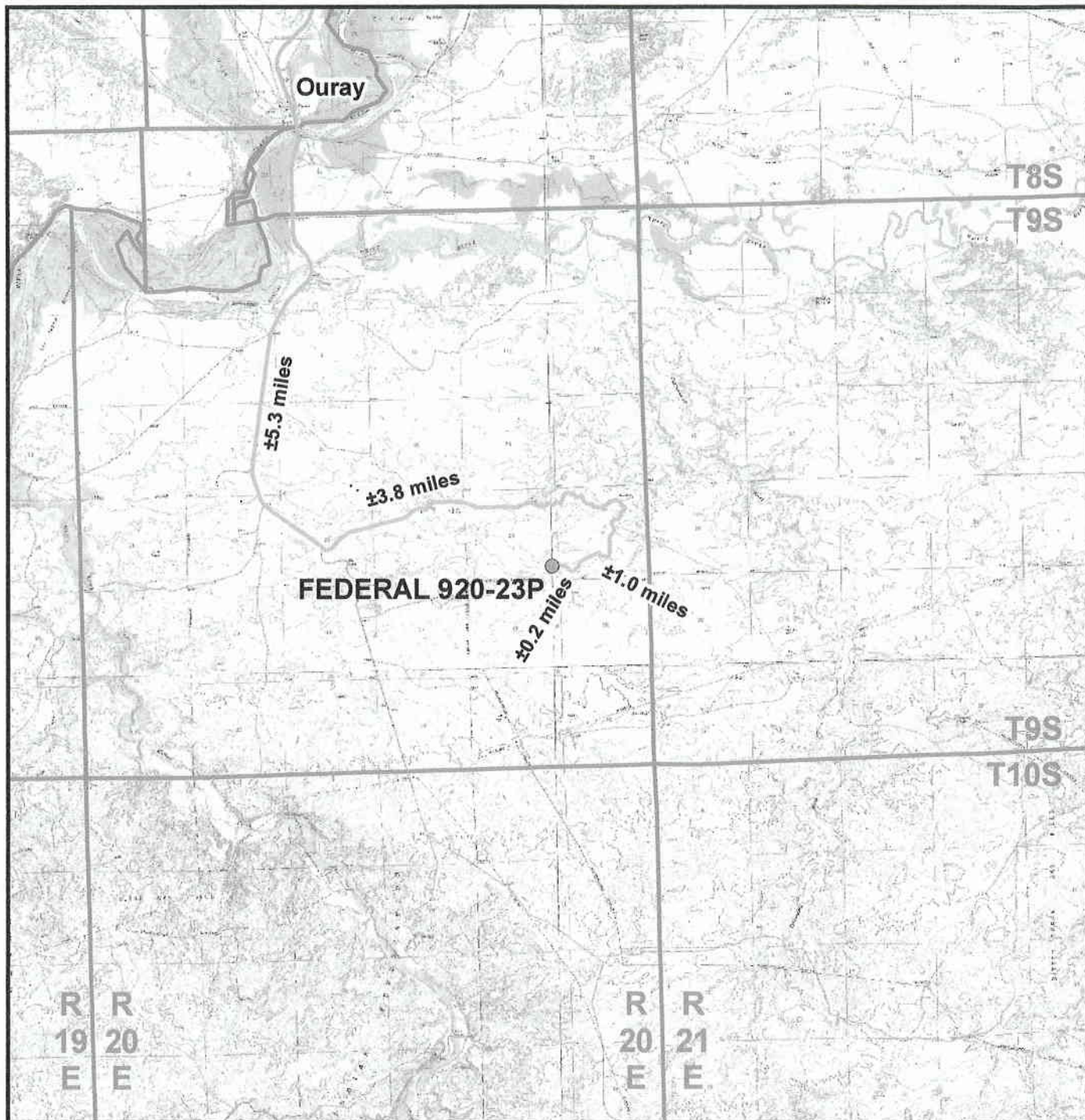
REVISED:

DATE TAKEN: 12-23-08

DATE DRAWN: 01-02-09

Timberline (435) 789-1365
 Engineering & Land Surveying, Inc.
 209 NORTH 300 WEST VERNAL, UTAH 84078

SHEET
4
 OF 9



Legend

- Proposed FEDERAL 920-23P Well Location
- Access Route - Proposed

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

FEDERAL 920-23P
Topo A
840' FSL, 501' FEL
SE¼ SE¼, Section 23, T9S, R20E
S.L.B.&M., Uintah County, Utah

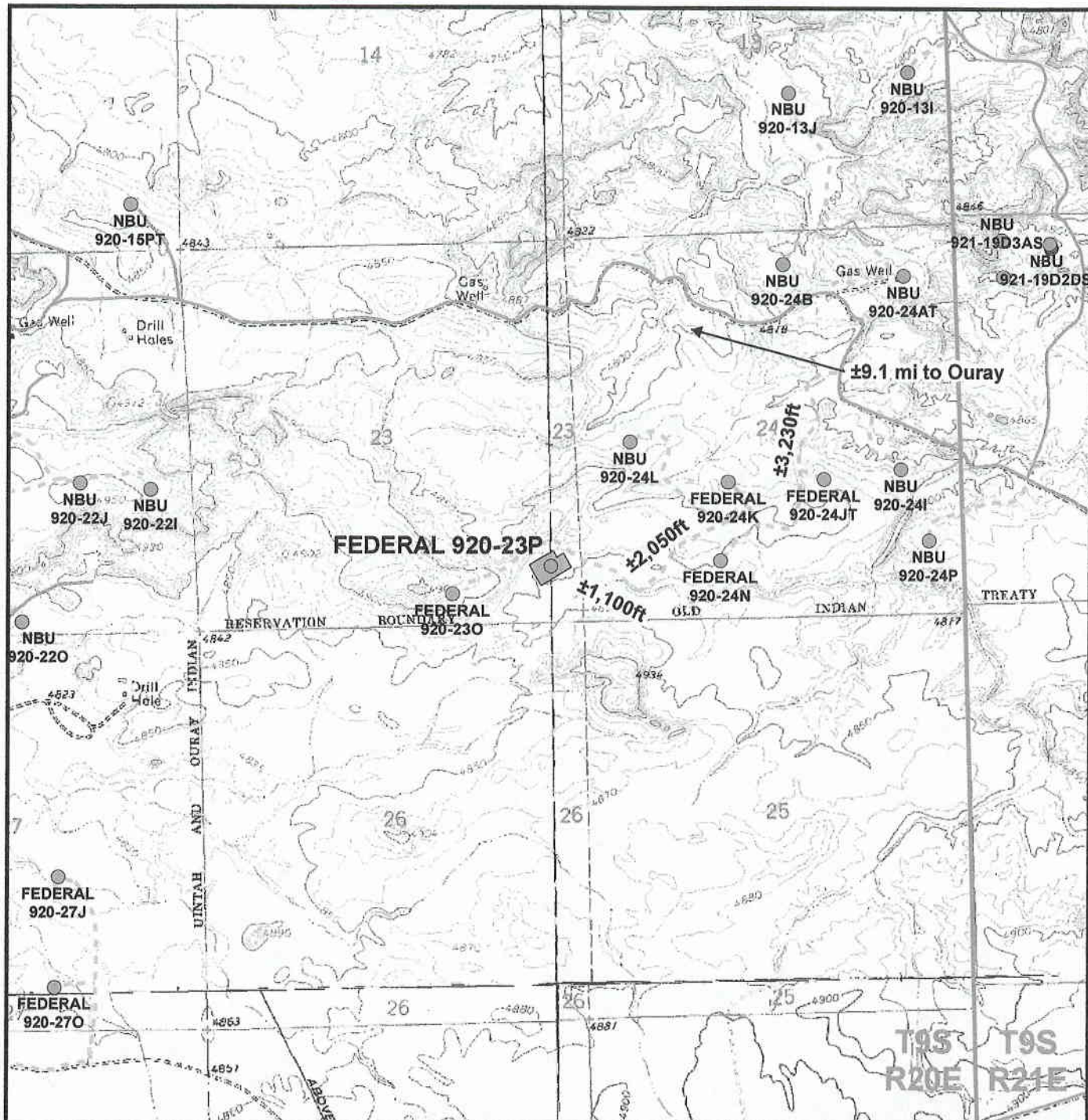


CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 21 Jan 2009	5
Revised:	Date:	

5 of 9



Legend

- Well - Proposed
- Well Pad
- - - Road - Proposed
- Road - Existing

Total Proposed Road Length: ±3,150ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

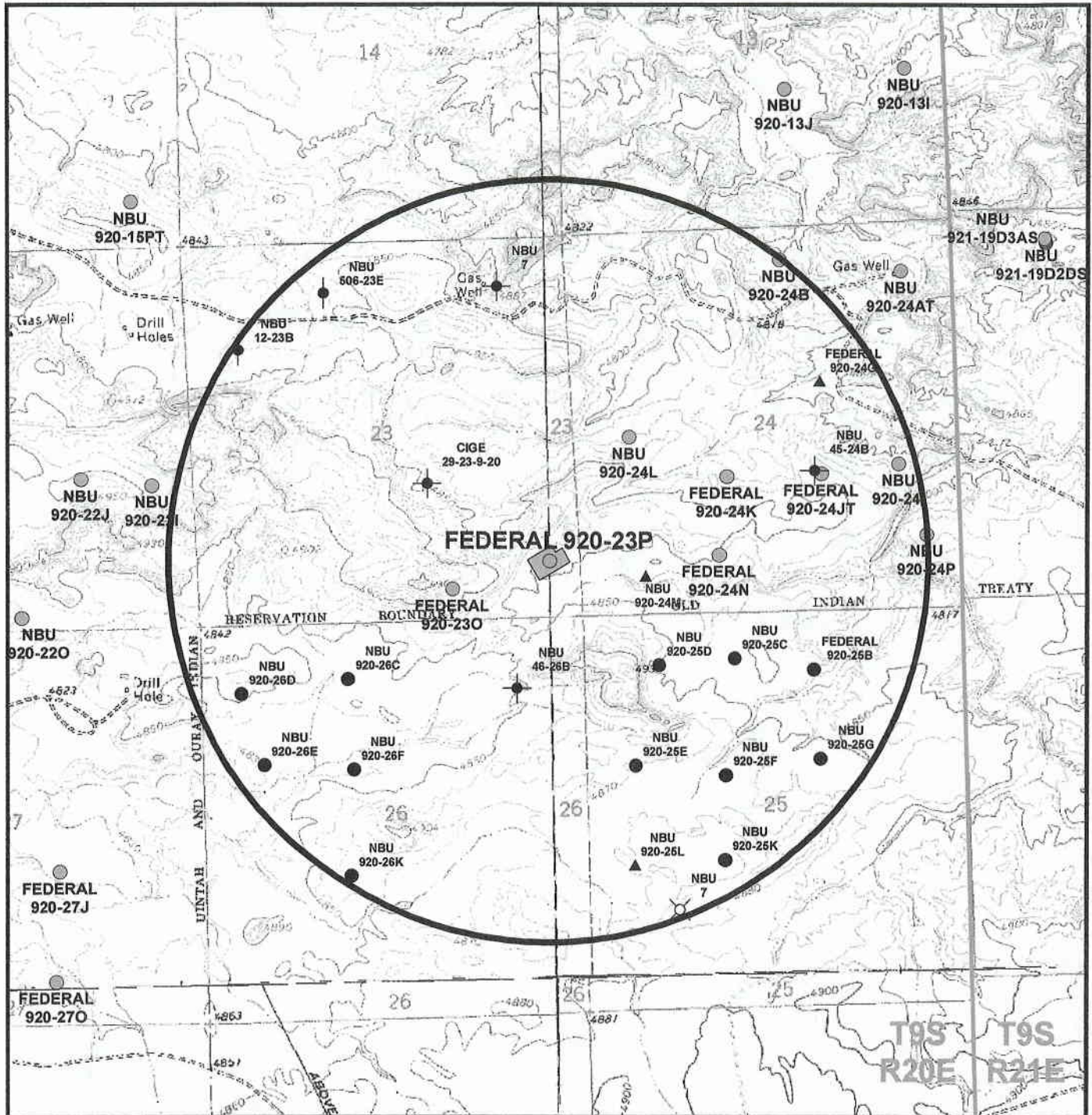
FEDERAL 920-23P
Topo B
840' FSL, 501' FEL
SE¼ SE¼, Section 23, T9S, R20E
S.L.B.&M., Uintah County, Utah



CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 21 Jan 2009	6
Revised:	Date:	6 of 9



Legend

- Well - Proposed
- Well Pad
- Well - 1 Mile Radius

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Producing
- ▲ Approved permit (APD); not yet spudded
- Spudded (Drilling commenced: Not yet complete)
- ✕ Location Abandoned
- Temporarily-Abandoned
- Plugged and Abandoned
- Shut-In

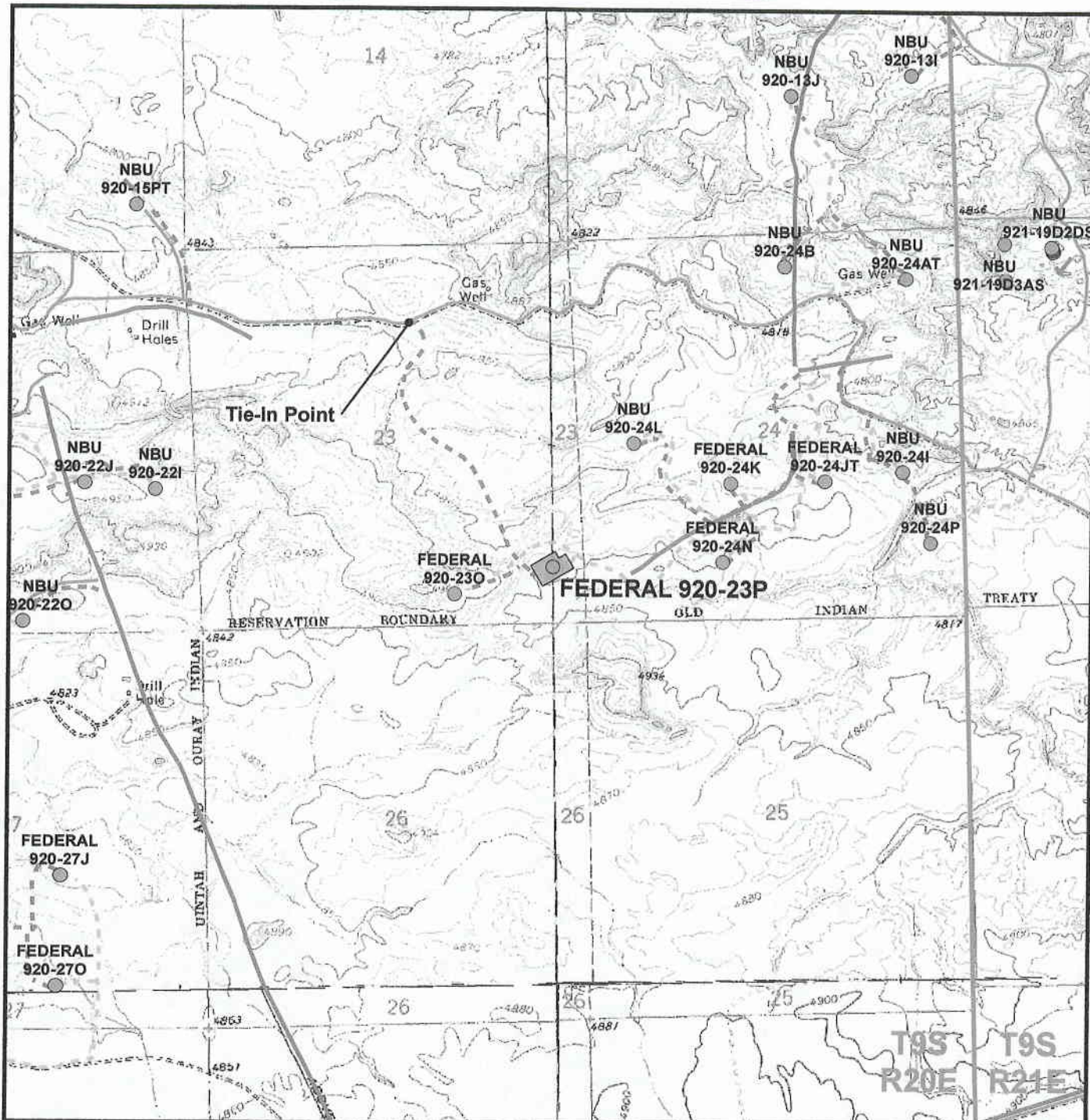
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

FEDERAL 920-23P
Topo C
840' FSL, 501' FEL
SE¼ SE¼, Section 23, T9S, R20E
S.L.B.&M., Uintah County, Utah

609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2000ft
NAD83 USP Central
Sheet No: 7
7 of 9



Legend

- Well - Proposed
- Well Pad
- Pipeline - Proposed
- Road - Proposed
- Pipeline - Existing
- Road - Existing

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ±4,440ft
Proposed Pipeline Length Around Pad: ±660ft

Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

FEDERAL 920-23P
Topo D
840' FSL, 501' FEL
SE¼ SE¼, Section 23, T9S, R20E
S.L.B.&M., Uintah County, Utah

609
CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182



Scale: 1" = 2000ft
NAD83 USP Central
Sheet No:
8
8 of 9

Kerr-McGee Oil & Gas Onshore, LP
FEDERAL 920-23P
Section 23, T9S, R20E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 5.3 MILES TO THE INTERSECTION OF A SERVICE ROAD TO THE NORTHEAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY, THEN EASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 3.8 MILES TO A SECOND SERVICE ROAD TO THE SOUTHWEST. EXIT LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 1.0 MILES TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHWESTERLY DIRECTION APPROXIMATELY 1,100 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 41.0 MILES IN A SOUTHERLY DIRECTION.

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/17/2009

API NO. ASSIGNED: 43-047-40546

WELL NAME: FEDERAL 920-23P

OPERATOR: KERR-MCGEE OIL & GAS (N2995)

CONTACT: RALEEN WHITE

PHONE NUMBER: 720-929-6666

PROPOSED LOCATION:

SESE 23 090S 200E

SURFACE: 0840 FSL 0501 FEL

BOTTOM: 0840 FSL 0501 FEL

COUNTY: UINTAH

LATITUDE: 40.01574 LONGITUDE: -109.62510

UTM SURF EASTINGS: 617339 NORTHINGS: 4430199

FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU-000577A

SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSMVD

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

☒ Plat
☒ Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WYB000291)
☒ Potash (Y/N)
☒ Oil Shale 190-5 (B) or 190-3 or 190-13
☒ Water Permit
(No. 43-8496)
☒ RDCC Review (Y/N)
(Date:)
☒ Fee Surf Agreement (Y/N)
☒ Intent to Commingle (Y/N)

LOCATION AND SITING:

☐ R649-2-3.
Unit: _____
☒ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells
☐ R649-3-3. Exception
☐ Drilling Unit
Board Cause No: _____
Eff Date: _____
Siting: _____
☐ R649-3-11. Directional Drill

COMMENTS:

See Separate File

STIPULATIONS:

*1- Federal Approval
2- Spacing Strip
3- On SHALE*



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

February 24, 2009

Kerr-McGee Oil & Gas Onshore, LP
P O Box 173779
Denver, CO 80217-3779

Re: Federal 920-23P Well, 840' FSL, 501' FEL, SE SE, Sec. 23, T. 9 South, R. 20 East,
Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-40546.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management, Vernal Office

Operator: Kerr-McGee Oil & Gas Onshore, LP
Well Name & Number Federal 920-23P
API Number: 43-047-40546
Lease: UTU-000577A

Location: SE SE Sec. 23 T. 9 South R. 20 East

Conditions of Approval

1. General

Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. Notification Requirements

Notify the Division with 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 office (801) 733-0983 home

3. Reporting Requirements

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

5. This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, and if the analysis suggests an area larger than the quarter-quarter section upon which the well is located is being drained, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in conformance with such analysis by filing a Request for Agency Action with the Board.

Page 2

43-047-40546

February 24, 2009

6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB NO. 1004-0137
Expires: July 31, 2010

5. Lease Serial No. UTU-000577A
6. If Indian, Allottee or Tribe Name Ute Tribe
7. If Unit or CA Agreement, Name and No.
8. Lease Name and Well No. Federal 920-23P
9. API Well No. 43 047 40546
10. Field and Pool, or Exploratory Natural Buttes Field
11. Sec., T., R., M., or Blk. and Survey or Area 23 T 9S R 20E S.L.B. & M.
12. County or Parish Uintah
13. State Utah

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone
2. Name of Operator Kerr-McGee Oil & Gas Onshore, LP
3a. Address PO Box 173779 Denver, CO 80217-3779
3b. Phone No. (include area code) Raleen White 720-929-6666
4. Location of well (Report location clearly and in accordance with any State requirements. *) At surface 840' FSL 501' FEL SE/4 SE/4 Lat. 40.015746 Long. -109.625718 At proposed prod. zone
14. Distance in miles and direction from the nearest town or post office* Approximately 41 miles south of Vernal, Utah
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 840'
16. No. of acres in lease 2,091.18
17. Spacing Unit dedicated to this well 40 acres
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. ±1,300'
19. Proposed Depth 10,400'
20. BLM/ BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, RT, GR, etc.) 4,851' GR KB
22. Approximate date work will start* ASAP
23. Estimated duration 10 days

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

- | | |
|---|---|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by existing bond on file (see item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/ or plans as may be required by the authorized officer. |

25. Signature <i>Raleen White</i>	Name (Printed/ Typed) Raleen White	Date 2-13-2009
Title Sr Regulatory Analyst	E-mail: raleen.white@anadarko.com	Phone: 720-929-6666
Approved By (Signature) <i>Stephanie J Howard</i>	Name (Printed/ Typed) Stephanie J Howard	Date 11/23/09
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations in connection with any matter within its jurisdiction.

*(Instructions on page 2)

UDOGM

NOV 30 2009
DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

NOS APP posted 2/18/09
AFMSS# 09XS0705A



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: Kerr McGee Oil & Gas Onshore, LP Location: SESE, Sec. 23, T9S, R20E
Well No: Federal 920-23P Lease No: UTU-0577A
API No: 43-047-40546 Agreement: N/A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: ut_vn_opreport@blm.gov .
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

Site-Specific Conditions of Approval:

1. Paint facilities "shadow gray."
2. Construct diversion drainages around well pad.
3. Monitor location by a permitted archaeologist during the construction process.
4. Monitor by a permitted paleontologist during construction.
5. If project construction operations are scheduled to occur after December 31, 2009, a raptor survey shall be conducted prior to construction of the proposed locations, pipelines, or access roads if construction will take place during raptor nesting season (January 1 through September 30).
6. If construction will occur in 2009, avoid an active burrowing owl nest with a ¼-mile buffer between March 1 and August 31. No avoidance buffer is recommended for inactive nests or for construction activities conducted outside of these dates.
7. If project construction operation are scheduled to occur after June 15, 2010, KMG will conduct additional biological surveys in accordance with the guidelines specified I the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

1. Soil erosion will be mitigated by reseeding all disturbed areas.
2. The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.
3. An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be sued in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
4. The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
5. A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
6. Major low water crossings will be armored with pit run material to protect them from erosion.
7. All personnel shall refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.
8. If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

9. Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
10. Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
11. If project construction operations are scheduled to occur after December 31, 2009, KMG shall conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix E) and conduct its operations according to applicable seasonal restrictions and spatial offsets.
12. USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix E).
13. All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
14. If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

1. Surface casing cement shall be brought up and into the surface. Top of Cmnt is to reach surf.
For surface casing cement program, to reach surface with Top of Cement, operator is required to pump additional cement beyond the stated amounts in application.
2. The operator must notify any active gilsonite operation located within 2 miles of the location 48 hours prior to any surface blasting for this well.
3. Conductor casing shall be set into competent formation.

toc_1800_operDrlgPlan#4
CsgSurf_set_2600 to 2800
KerrMcGee apd_coa Downhole
4. Production casing cement shall be brought up and into the surface casing. Production casing minimum cement top is 1800 ft. The minimum cement top is approximately 0700 ft above the surface casing shoe.
Cmnt Top (TOC) standard will place cmnt behind casing across formation lost circulation zone, Birds Nest Zone.
Surface casing setting depth stated in APD is 2700 to 2800 ft.
COA specification fulfills operators performance standard stated in APD (where operators toc is calc'd with an excess to reach surface).
5. Operator is to notify BLM Vernal Field Office and active gilsonite mining operator (or lease holder) located within a 2 mile radius, 48 hours prior to pad explosives blasting. Well is not close to gilsonite vein, but on trend to gilsonite vein deposits.
6. A copy of Kerr McGee's Standard Operating Practices (SOP version: dated 7/17/08 and approved 7/28/08) shall be on location.
7. Drilling plan specifics and practices are referenced in the Kerr McGee Oil & Gas Standard Operating Procedures (SOP version: July 28, 2008). The operators drilling plan items 3 to 9 reference the SOP. Kerr McGee shall adhere to the referenced requirements in the SOP.
Kerr McGee and their contractors shall adhere to all Oil and Gas rules and requirements listed in the Code of Federal Regulations and all Federal Onshore Oil and Gas Orders except where variances have been granted.
8. Covering air/gas drilling operations, requirements will be adhered to covering air/gas drilling operations as described in Onshore Order #2 III. E. 1. Drilling Operations, Special Drilling Operations, air/gas drilling.
9. A Gamma Ray well Log shall be run from the well Total Depth to the surface.
A copy of the Gamma Ray well Log shall be submitted to the BLM Vernal Field Office.

10.A variance is granted for Onshore Order #2 Drilling Operations III. E. "Blooie line discharge 100 feet from well bore and securely anchored" Blooie line can be 45 feet.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from

KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: KERR-McGEE OIL & GAS ONSHORE, L.P.

Well Name: FEDERAL 920-23P

Api No: 43-047-40546 Lease Type: FEDERAL

Section 23 Township 09S Range 20E County UINTAH

Drilling Contractor PETE MARTIN DRLG RIG # BUCKET

SPUDDED:

Date 01/09/2010

Time 11:00 AM

How DRY

Drilling will Commence: _____

Reported by JAMES GOBER

Telephone # (435) 828-7024

Date 01/11/2010 Signed CHD

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-000577A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: FEDERAL 920-23P
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0840 FSL 0501 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 23 Township: 09.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047405460000
PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/9/2010	<input type="checkbox"/> CASING REPAIR	
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER:	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX SPUD WELL LOCATION ON 01/09/2010 AT 11:00 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 11, 2010		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/11/2010	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750381	BONANZA 1023-2K4S		SENW	2	10S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17446	1/7/2010		1/12/2010		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVB</i> SPUD WELL LOCATION ON 1/7/2010 AT 17:00 HRS. <i>BAL = NESW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740546	FEDERAL 920-23P		SESE	23	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17447	1/9/2010		1/12/2010		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVB</i> SPUD WELL LOCATION ON 1/9/2010 AT 11:00 HRS.							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

ANDY LYTLE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

1/11/2010

Date

RECEIVED
JAN 11 2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-000577A
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: FEDERAL 920-23P
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PHONE NUMBER: 720 929-6007 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/2/2010	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
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	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: _____	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PROPETRO AIR RIG ON 1/29/2010. DRILLED 11" SURFACE HOLE TO 2740'. RAN 8-5/8" 28# J-55 SURFACE CSG. PUMP 20 BBLS OF GEL WATER LEAD CMT W/210 SX CLASS G HI FILL CMT 11.0 PPG, 3.82 YD. TAILED CMT W/175 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON FLOW AND DISPLACE W/161.7 BBLS OF 8.3# H2O, 15BBLS OF LEAD TO SURFACE W/500 PSI OF LIFT @ 5 BBLS/MIN. LAND PLUG, 900 PSI, AND CHECK FLOAT. FLOAT HELD. PUMP TOP OUT #1 W/75 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD CEMENT DOWN 1". CEMENT FELL BACK. WAIT 2 HR AND PUMP 150 SX OF SAME CEMENT. CEMENT TO SURFACE.		
<div style="display: flex; justify-content: space-between;"> <div> NAME (PLEASE PRINT) Andy Lytle </div> <div> PHONE NUMBER 720 929-6100 </div> <div> TITLE Regulatory Analyst </div> </div>		
<div style="display: flex; justify-content: space-between;"> <div> SIGNATURE N/A </div> <div> DATE 2/2/2010 </div> </div>		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/12/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:			
<input type="checkbox"/> SPUD REPORT Date of Spud:			
<input type="checkbox"/> DRILLING REPORT Report Date:			

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

 Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests to change the total depth (TD) to include the Blackhawk formation, which is in the Mesaverde group for this well. In addition, Kerr-McGee respectfully request approval in the well design, which includes hole and casing size changes. Please see attached for additional details. Please contact the undersigned if you have any questions and/or comments. Thank you.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 04/14/2011

By:

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/12/2011	



**KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM**

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP					DATE	April 12, 2011		
WELL NAME	FEDERAL 920-23P					TD	11,512'	TVD	11,512' MD
FIELD	Natural Buttes		COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION		4,850'
SURFACE LOCATION	SESE	840 FSL	501 FEL	Sec 23	T 9S	R 20E			
	Latitude:	40.015746	Longitude:	-109.625718			NAD 27		
BTM HOLE LOCATION	SESE	840 FSL	501 FEL	Sec 23	T 9S	R 20E			
	Latitude:	40.015746	Longitude:	-109.625718			NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde								
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), TRIBAL (Surface), UDOGM Tri-County Health Dept.								

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
<p>All water flows encountered while drilling will be reported to the appropriate agencies.</p>					
	Green River @	1,692'			
	Top of Birds Nest @	1,925'			
	Mahogany @	2,319'			
	Preset f/ GL @	2,770' MD			
<p>Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the actual depth of the loss zone.</p>					
	Wasatch @	5,029'			
<p>Mud logging program TBD Cased hole logging program from TD - surf csg</p>					
	Mverde	8,260' TVD			
	MVU2 @	9,238' TVD			
	MVU1 @	9,762' TVD			
	Sego @	10,513' TVD			
	Castlegate @	10,563' TVD			
	MN5 @	10,912' TVD			
<p>Max anticipated Mud required</p>					
13.0 ppg	TD @	11,512' MD			



KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	BTC
CONDUCTOR	14"	0-40'				3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,770	28.00	IJ-55	LTC	1.95	1.45	5.12	N/A
PRODUCTION	4-1/2"	0 to 11,512	11.60	HCP-110	LTC or BTC	1.19	1.11	2.61	3.43

Surface Casing:

(Burst Assumptions: TD = 13.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15
			+ 0.25 pps flocele				
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15
			+ 2% CaCl + 0.25 pps flocele				
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	2,270'	65/35 Poz + 6% Gel + 10 pps gilsonite	210	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOW				
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,522'	Premium Lite II +0.25 pps	330	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	6,990'	50/50 Poz/G + 10% salt + 2% gel	1,350	10%	14.30	1.31
			+ 0.1% R-3				

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER:

Nick Spence / Emile Goodwin

DATE:**DRILLING SUPERINTENDENT:**

Kenny Gathings / Lovel Young

DATE:

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PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
COUNTY: UINTAH		STATE: UTAH
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TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/29/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<div style="display: flex; flex-wrap: wrap;"> <div style="width: 33%;"> <input type="checkbox"/> ACIDIZE <input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION </div> <div style="width: 33%;"> <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER </div> <div style="width: 33%;"> <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text"/> </div> </div>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. The operator requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well. The operator		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Jaime Scharnowske		PHONE NUMBER 720 929-6304
SIGNATURE N/A		TITLE Regulatory Analyst
DATE 9/29/2011		

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-000577A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: FEDERAL 920-23P
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0840 FSL 0501 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 23 Township: 09.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047405460000
9. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UINTAH
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 10/11/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE TUBING	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU ROTARY RIG. FINISHED DRILLING FROM 2740' TO 11,536' ON OCT. 8, 2011. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED SST RIG 54 ON OCTOBER 11, 2011 @ 02:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
<div style="display: flex; justify-content: space-between;"> <div> Accepted by the Utah Division of Oil, Gas and Mining </div> <div style="font-size: 2em; font-weight: bold;">FOR RECORD ONLY</div> </div>		
NAME (PLEASE PRINT) Jaime Scharnowske	PHONE NUMBER 720 929-6304	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 10/11/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-000577A
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. UNIT or CA AGREEMENT NAME:
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		8. WELL NAME and NUMBER: FEDERAL 920-23P
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0840 FSL 0501 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESE Section: 23 Township: 09.0S Range: 20.0E Meridian: S		9. API NUMBER: 43047405460000
9. FIELD and POOL or WILDCAT: NATURAL BUTTES		COUNTY: UINTAH
STATE: UTAH		
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> ALTER CASING	
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CASING REPAIR	
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/9/2011	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	
	<input type="checkbox"/> CHANGE WELL STATUS	
	<input type="checkbox"/> CHANGE WELL TYPE	
	<input type="checkbox"/> DEEPEN	
	<input type="checkbox"/> FRACTURE TREAT	
	<input type="checkbox"/> NEW CONSTRUCTION	
	<input type="checkbox"/> OPERATOR CHANGE	
	<input type="checkbox"/> PLUG AND ABANDON	
	<input type="checkbox"/> PLUG BACK	
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	
	<input type="checkbox"/> RECLAMATION OF WELL SITE	
	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	
	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	
	<input type="checkbox"/> TEMPORARY ABANDON	
	<input type="checkbox"/> TUBING REPAIR	
	<input type="checkbox"/> VENT OR FLARE	
	<input type="checkbox"/> WATER DISPOSAL	
	<input type="checkbox"/> WATER SHUTOFF	
	<input type="checkbox"/> SI TA STATUS EXTENSION	
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	
	<input type="checkbox"/> OTHER: <input style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 11/09/2011 AT 1500 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/11/2011	

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

C

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6304

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304740546	FEDERAL 920-23P		SESE	23	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>C</u>	<u>17447</u>	<u>2900</u>	<u>1/9/2010</u>		<u>2/1/2012</u>		
Comments: <u>moved into unit NBU</u> — <u>3/30/2012</u>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750580	FEDERAL 920-23JT		NENW	<u>23</u>	<u>9S</u>	<u>20E</u>	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>C</u>	<u>18212</u>	<u>2900</u>	<u>11/23/2011</u>		<u>2/1/2012</u>		
Comments: Please update the subject well to reflect production from WSMVD. <u>moved into NBU unit</u> — <u>3/30/2012</u>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750581	FEDERAL 920-23I		NESE	23	9S	20E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>C</u>	<u>18029</u>	<u>2900</u>	<u>4/30/2011</u>		<u>2/1/2012</u>		
Comments: <u>moved into NBU unit</u> — <u>3/30/12</u>							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

RECEIVED

MAR 29 2012

Div. of Oil, Gas & Mining

JAIME SCHARNOWSKE

Name (Please Print)

Signature

REGULATORY ANALYST

Title

3/28/2012

Date

RECEIVED

JUN 28 2012

Form 3160-4
(August 2007)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

DIV. OF OIL, GAS & MINING

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Dry <input type="checkbox"/> Other		5. Lease Serial No. UTU0577A	
b. Type of Completion <input checked="" type="checkbox"/> New Well <input type="checkbox"/> Work Over <input type="checkbox"/> Deepen <input type="checkbox"/> Plug Back <input type="checkbox"/> Diff. Resvr. Other _____		6. If Indian, Allottee or Tribe Name	
2. Name of Operator KERR MCGEE OIL & GAS ONSHORE		7. Unit or CA Agreement Name and No.	
Contact: JAIME L. SCHARNOWSKE Email: JAIME.SCHARNOWSKE@ANADARKO.COM		8. Lease Name and Well No. FEDERAL 920-23P ✓	
3. Address PO BOX 173779 DENVER, CO 80217		9. API Well No. 43-047-40546	
3a. Phone No. (include area code) Ph: 720-929-6304		10. Field and Pool, or Exploratory NATURAL BUTTES	
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface SESE 840FSL 501FEL 40.015746 N Lat, 109.625718 W Lon At top prod interval reported below SESE 840FSL 501FEL 40.015746 N Lat, 109.625718 W Lon At total depth SESE 840FSL 501FEL 40.015746 N Lat, 109.625718 W Lon		11. Sec., T., R., M., or Block and Survey or Area Sec 23 T9S R20E Mer SLB	
14. Date Spudded 01/09/2010		15. Date T.D. Reached 10/08/2011	
16. Date Completed <input type="checkbox"/> D & A <input checked="" type="checkbox"/> Ready to Prod. 11/09/2011		17. Elevations (DF, KB, RT, GL)* 4851 GL	
18. Total Depth: MD 11536 TVD 11531		19. Plug Back T.D.: MD 11476 TVD 11471	
20. Depth Bridge Plug Set: MD TVD		21. Type Electric & Other Mechanical Logs Run (Submit copy of each) HDIL/ZDL/CNGR-CBL/GR/COLLARS X	
22. Was well cored? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Was DST run? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis) Directional Survey? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes (Submit analysis)			

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	32.0	0	2718		610		0	
7.875	4.500 I-80	11.6	0	11519		2472		2616	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	10893							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	8907	11330	8907 TO 11330	0.360	175	OPEN
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
8907 TO 11330	PUMP 16,565 BBLs SLICK H2O & 266,338 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
11/09/2011	11/16/2011	24	→	0.0	3015.0	980.0			FLows FROM WELL
Choke Size	Thg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	2660	3623.0	→	0	3015	980		POW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Thg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #125325 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			→						

29. Disposition of Gas(Sold, used for fuel, vented, etc.)
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1704 1898 2429 5056 8365

32. Additional remarks (include plugging procedure):
Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7. Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #125325 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal

Name (please print) JAIME L. SCHARNOWSKE

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 12/09/2011

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

US ROCKIES REGION
Operation Summary Report

Well: FEDERAL 920-23P			Spud Conductor: 1/9/2010			Spud Date: 1/30/2010		
Project: UTAH-UINTAH			Site: FEDERAL 920-23P			Rig Name No: PROPETRO/, SST 54/54		
Event: DRILLING			Start Date: 1/20/2010			End Date: 10/11/2011		
Active Datum: RKB @4,869.00usft (above Mean Sea Level)			UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/29/2010	8:00 - 16:00	8.00	MIRU	01	B	P		MOVE ON TO LOCATION, DRESS CONDUCTOR, INSTALL AIR BOWL, RIG UP RIG, BUILD DITCH, RIG UP AIR PACKAGE, RIG UP PUMP. PRIME PUMPS, P/U STRAIGHT MOTOR .16 RPG SN 8069, M/U 11" Q507 SN 7019011 (1ST RUN).
	16:00 - 0:00	8.00	MAINT	08	B	Z		POWERHEAD LEAKING, WORK ON POWERHEAD. CHANGE PACKING, CHANGE OUT POWERHEAD HOUSING.
1/30/2010	0:00 - 14:00	14.00	DRLSUR	02	B	P		SPUD 1/30/2010 00:00 DRILL 44'- 1560' (1516',108'/HR) WOB 23-25K RPM 45, MOTOR RPM 104, GPM 650, ON/OFF PSI- 1500/1200 UP/DOWN/ROT=60/56/58 2K DRAG
	14:00 - 14:30	0.50	DRLSUR	10	B	P		MULTISHOT WIRELINE SURVEY TOOL. SURVEY DEPTH 1500'= 1.8 DEG CORRECTED AZI= 87.3.
	14:30 - 23:00	8.50	DRLSUR	02	B	P		DRILL 1560'- 2040'. (480, 56'/HR) BACK OFF WEIGHT ON BIT SO DIFFERENTIAL PSI WAS BETWEEN 200-250 PSI. WOB 18-21K RPM 55, MOTOR RPM 104, GPM 650, ON/OFF PSI- 1450/1200 UP/DOWN/ROT=63/58/60 3K DRAG.
	23:00 - 23:30	0.50	DRLSUR	10	B	P		MULTISHOT WIRELINE SURVEY TOOL. SURVEY DEPTH 1980'= 1.2 DEG. CORRECTED AZI= 47.8
	23:30 - 0:00	0.50	MAINT	08	B	Z		PIT PUMP DOWN. UNABLE TO PRIME. WAIT TO REPLACE PIT PUMP.
1/31/2010	0:00 - 3:30	3.50	MAINT	08	B	Z		REPLACE PIT PUMP, PUMP SHAFT TWISTED OFF AT BOOT.
	3:30 - 17:00	13.50	DRLSUR	02	B	P		DRILL 2040'-2740' (700, 52'/HR) TD 1/31/2010 17:00 . BACK OFF WEIGHT ON BIT SO DIFFERENTIAL PSI WAS BETWEEN 200-250 PSI. WOB 18-21K RPM 55, MOTOR RPM 104, GPM 650, ON/OFF PSI- 1550/1300 UP/DOWN/ROT=72/68/70 3K DRAG. FULL CIRC THROUGH OUT.
	17:00 - 18:30	1.50	CSG	05	F	P		CIRC AND CONDITION HOLE. CLEAN HOLE WITH POLYMER SWEEPS.
	18:30 - 19:30	1.00	DRLSUR	10	B	P		RUN MULTISHOT WIRELINE SURVEY TOOL. SURVEY DEPTH 2680'= 2.2 DEGREES, 78.1 CORRECTED AZI.
	19:30 - 0:00	4.50	CSG	06	D	P		LDDS, BREAK SUBS OFF MONEL AND MOTOR. BREAK BIT.
2/1/2010	0:00 - 2:30	2.50	CSG	12	C	P		RUN 64 JTS OF 8-5/8" 32# IJ-55 W/ 8RD LTC THREADS AND LAND FLOAT SHOE 2704' KB. RAN BAFFLE PLATE IN TOP OF SHOE JT LANDED @ 2660' KB.FILL CSG 800' AND 1700'. RUN 200' OF 1" PIPE DOWN BACKSIDE.
	2:30 - 3:00	0.50	RDMO	01	E	P		RIG DOWN RIG, RELEASE RIG 2/01/2010 03:00

US ROCKIES REGION
Operation Summary Report

Well: FEDERAL 920-23P		Spud Conductor: 1/9/2010		Spud Date: 1/30/2010	
Project: UTAH-UINTAH		Site: FEDERAL 920-23P		Rig Name No: PROPETRO/, SST 54/54	
Event: DRILLING		Start Date: 1/20/2010		End Date: 10/11/2011	
Active Datum: RKB @4,869.00usft (above Mean Sea Level)			UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/1/2011	17:30 - 18:00	0.50	DRLPRO	02	D	P		DIR DRLG/SURVEY. 2740' TO 2919'. 179' @ 358 FPH. WOB 15 TO 20K. TOP DRIVE RPM 48. MUD MOTOR RPM 82. PUMPING 515 GPM. 1400 PSI OFF BOTTOM. 1810 PSI ON BOTTON.
	18:00 - 20:30	2.50	DRLPRO	08	A	P		RIG REPAIR. #3 GEN SET & ADJUST SCR. TURN STAND PIPE. FIX BACK BRAKE ON TOP DRIVE.
	20:30 - 0:00	3.50	DRLPRO	02	D	P		DIR DRLG/ROTATE/SLIDE/SURVEY. 2919 TO 3322'. 403' AT 115.1 FPH. WOB 15K. TOP DRIVE RPM 60. MUD MOTOR RPM 82. PUMPING 515 GPM. 1500 PSI OFF BOTTOM. 1910 PSI ON BOTTOM
	0:00 - 11:00	11.00	DRLPRO	02	D	P		DIR DRLG/SURVEY 3322' TO 5114'. 1792' @ 162.9 FPH. WOB 20 TO 24K. TOP DRIVE RPM 60. MUD MOTOR RPM 86. PUMPING 539 GPM. 2100 PSI OFF BOTTOM. 2460 PSI ON BOTTOM.
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SERVICE & FUNCTION BOP.
10/2/2011	11:30 - 0:00	12.50	DRLPRO	02	D	P		DIR DRLG/SURVEY 5114' TO 6844'. 1730' @ 138.4 FPH. WOB 20 TO 24K. TOP DRIVE RPM 60. MUD MOTOR RPM 83. PUMPING 519 GPM. 2450 PSI OFF BOTTOM. 2850 PSI ON BOTTOM.
	0:00 - 3:00	3.00	DRLPRO	02	B	P		DRLG/SURVEY 6844' TO 7234'. 390' @ 130 FPH. WOB 20 TO 24K. TOP DRIVE RPM 60. MUD MOTOR RPM 83. PUMPING 519 GPM. 2450PSI OFF BOTTOM. 2850 PSI ON BOTTOM. 6 TO 8' FLARE.
	3:00 - 11:00	8.00	DRLPRO	22	C	P		GAS KICK. SHUT WELL IN. 750 SICP. 510 SIDPP. CIRCULATE OUT KICK. BUILD VOLUME & MIX MUD. RAISE MUD WT TO 10.1.
	11:00 - 16:30	5.50	DRLPRO	02	B	P		DRLG/SURVEY 7234' TO 7499'. 265' @ 48.2 FPH. WOB 22K. TOP DRIVE RPM 60. MUD MOTOR RPM 70. PUMPING 441 GPM. 1830 PSI OFF BOTTOM. 2180 PSI ON BOTTOM. 8 TO 12' FLARE.
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION BOP
10/3/2011	17:00 - 0:00	7.00	DRLPRO	02	B	P		DRLG/SURVEY 7499' TO 7899'. 400' @ 57.1 FPH. WOB 24K. TOP DRIVE RPM 50. MUD MOTOR RPM 72. PUMPING 450 GPM. 2180 PSI OFF BOTTOM. 2440 PSI ON BOTTOM. 4 TO 6' FLARE.
	0:00 - 8:00	8.00	DRLPRO	02	D	P		DRILL SLIDE 7899'-8274' (375', 47'/HR) WOB 18-20K AVE WOB-19K. RPM-50. DH RPM-71. SPM-91. GPM-448. ON/OFF PSI-2600/2150. DIFF-450. ON/OFF TORQUE-3500/7700. UP/DOWN/ROT-189/150/165. DRAG-24K. MUD IN 40/10.4 10% LCM. MUD OUT 40/10.3 12%. 0' SLIDE 100% ROT. NO MUD LOSSES. 4-6' FLARE
	8:00 - 15:30	7.50	DRLPRO	02	D	P		DRILL SLIDE 8274'-8644' (370', 49'/HR) WOB 18-22K AVE WOB-20K. RPM-50. DH RPM-73. SPM-93. GPM-455. ON/OFF PSI-2700/2200. DIFF-500. ON/OFF TORQUE-3500/8000. UP/DOWN/ROT-201/155/173. DRAG-28K. MUD IN 44/10.7 10% LCM. MUD OUT 41/10.6 10%. 0' SLIDE. 100% ROT. NO MUD LOSSES. 3' FLARE
	15:30 - 16:00	0.50	DRLPRO	07	A	P		RIG SERVICE. BOP DRILL 60 SEC. SERVICE TOP DRIVE.

US ROCKIES REGION

Operation Summary Report

Well: FEDERAL 920-23P		Spud Conductor: 1/9/2010		Spud Date: 1/30/2010	
Project: UTAH-UINTAH		Site: FEDERAL 920-23P			Rig Name No: PROPETRO/, SST 54/54
Event: DRILLING		Start Date: 1/20/2010		End Date: 10/11/2011	
Active Datum: RKB @4,869.00usft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/4/2011	16:00 - 23:30	7.50	DRLPRO	02	D	P		DRILL SLIDE 8644'-8835' (191', 25'/HR) WOB 12-25K AVE WOB-17K. RPM-40-60. DH RPM-73. SPM-93. GPM-455. ON/OFF PSI-2500/2200. DIFF-300. ON/OFF TORQUE-3500/8000. UP/DOWN/ROT-190/155/175. DRAG-15K. MUD IN 44/10.8 10% LCM. MUD OUT 44/10.8 10%. 0' SLIDE. 100% ROT NO MUD LOSSES. 2' FLARE ON CONNECITONS. PRESSURE SPIKING TO 3100+ AND TORQUE SPIKING TO 13000. MOTOR ACTING WEAK. UNABLE TO PUT FULL WT ON BIT. MIX 30 BBL 12.8# PILL AND PUMP FOR DRY JOB. NO FLOW ON FLOW CHECK.
	23:30 - 0:00	0.50	DRLPRO	05	C	P		TRIP OUT OF HOLE FOR WEAK MOTOR. 45K OVER PULL OFF BOTTOM. HOLE TAKING PROPER FLUID ON TRIP OUT. NO FLOW ON FLOW CHECKS. PULL EM TOOL. DRAIN MOTOR. BREAK BIT. LD MUD MOTOR. OVER 1/4" PLAY IN BEARING WHEN WEIGHT IS SAT DOWN ON MOTOR. WORK PIPE AND BLIND RAMS.
	0:00 - 7:00	7.00	DRLPRO	06	A	P		P/U EXCEL 7/8, 3.3 1.5 BH .16 RPG MOTOR (SN EX614). MAKE UP FX65M SECURITY BIT (SN 11690199) W/ A TFA OF.84. SCRIBE MOTOR AND INSTALL EM TOOL. TRIP IN HOLE. BREAK CIRC 2800, 5500'. WASH BRIDGE @ 8300'.
	7:00 - 12:30	5.50	DRLPRO	06	A	P		WASH AND REAM 8745'-8835'. 20' FLARE ON BOTTOMS UP FOR 20 MIN. NO LOSSES ON TRIP. MUD WT IN 10.9/45 MUD OUT 11.2/45 10% LCM.
	12:30 - 13:00	0.50	DRLPRO	03	E	P		DRILL 8835'-9122' (287', 57'/HR) WOB 17-20K AVE WOB-19K. RPM-50. DH RPM-71. SPM-90. GPM-441. ON/OFF PSI-2550/2250. DIFF-300. ON/OFF TORQUE-4000/8500. UP/DOWN/ROT-192/155/180.
	13:00 - 18:00	5.00	DRLPRO	02	D	P		DRAG-12K. MUD IN 47/11.0 10% LCM. MUD OUT 55/10.8 10%. 0' SLIDE. 100% ROT. NO MUD LOSSES. 3' ON CONNECTION GAS.
10/5/2011	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL 9122'-9408' (286', 48'/HR) WOB 17-20K AVE WOB-18K. RPM-50. DH RPM-71. SPM-90. GPM-441. ON/OFF PSI-2650/2250. DIFF-400. ON/OFF TORQUE-4000/8500. UP/DOWN/ROT-205/157/195.
	0:00 - 9:00	9.00	DRLPRO	02	D	P		DRAG-10K. MUD IN 45/11.0 10% LCM. MUD OUT 45/10.9 10%. 0' SLIDE. 100% ROT. NO MUD LOSSES. 3' ON CONNECTION GAS. BOP DRILL 90 SEC.
								DRILL 9408'- 9885' (477,53'/HR) WOB 17-21K AVE WOB-19K. RPM-50. DH RPM-71. SPM-90. GPM-441. ON/OFF PSI-2800/2400. DIFF-400. ON/OFF TORQUE-5000/11000. UP/DOWN/ROT-218/170/202. DRAG-16K. MUD IN 45/11.3 10% LCM. MUD OUT 47/11.1 10%. 0' SLIDE. 100% ROT. LOSS COMMUNICATION WITH EXCEL EM TOOL. LAST SURVEY WAS 9261'. 3' FLARE WHILE DRILLING.

US ROCKIES REGION
Operation Summary Report

Well: FEDERAL 920-23P		Spud Conductor: 1/9/2010		Spud Date: 1/30/2010	
Project: UTAH-UINTAH		Site: FEDERAL 920-23P			Rig Name No: PROPETRO/, SST 54/54
Event: DRILLING		Start Date: 1/20/2010		End Date: 10/11/2011	
Active Datum: RKB @4,869.00usft (above Mean Sea Level)			UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/6/2011	9:00 - 15:30	6.50	DRLPRO	02	D	P		DRILL 9885'- 10171' (286', 44'/HR) WOB 17-21K AVE WOB-19K. RPM-50. DH RPM-71. SPM-90. GPM-441. ON/OFF PSI-2875/2500. DIFF-375. ON/OFF TORQUE-5500/12000. UP/DOWN/ROT-221/170/204. DRAG-17K. MUD IN 48/11.7 10% LCM. MUD OUT 48/11.5 8% LCM. 0' SLIDE. 100% ROT. 15' FLARE FROM 9970'. 2' DRILLING FLARE. 5' CONNECTION FLARE. (BOP DRILL 65 SEC)
	15:30 - 16:00	0.50	DRLPRO	07	A	P		RIG SERVICE. SERVICE TOP DRIVE. SERVICE CROWN. FUNCTION PIPE RAMS AND ANNULAR.
	16:00 - 0:00	8.00	DRLPRO	02	D	P		DRILL 10171'-10449 (278', 35'/HR) WOB 17-23K AVE WOB-21K. RPM-40-55. DH RPM-71. SPM-90. GPM-441. ON/OFF PSI-2775/2500. DIFF-225. ON/OFF TORQUE-5500/12000. UP/DOWN/ROT-231/175/209. DRAG-22K. MUD IN 44/11.8. 7% LCM. MUD OUT 45/11.7 10%. 0' SLIDE. 100% ROT.
	0:00 - 4:30	4.50	DRLPRO	02	D	P		DRILL SLIDE 10449'-10540' (91', 20'/HR) WOB 17-23K AVE WOB-21K. RPM-40-55. DH RPM-71. SPM-80-90. GPM-392-441. ON/OFF PSI-2775/2500. DIFF-275. ON/OFF TORQUE-5500/14000. UP/DOWN/ROT-230/175/209. DRAG-21K. MUD IN 45/11.8. 7% LCM. MUD OUT 45/11.8 10%. 0' SLIDE. 100% ROT.
	4:30 - 5:30	1.00	DRLPRO	05	A	P		MIX 13.8# 30 BBL PILL FOR DRY JOB. CHECK FOR FLOW AND PUMP DRY JOB. STAND BACK MOUSE HOLE STD.
	5:30 - 11:00	5.50	DRLPRO	06	A	P		TRIP OUT OF HOLE. 238K MAX PULL OFF BOTTOM. 30 K DRAG. NO TIGHT HOLE ON TRIP OUT. HOLE TOOK PROPER FLUID ON TRIP OUT. NO FLOW ON FLOW CHECKS. PULL ROT HEAD RUBBER AT 1100'. CHECK MOTOR. BREAK BIT. MAKE UP BIT #3 (SMITH MDI 616 WITH 6-13'S) FUNCTION PIPE AND BLIND RAMS.
	11:00 - 12:00	1.00	DRLPRO	06	A	P		PULL EM TOOL AND CHECK TOOL FOR MEMORY CHIP. NO MEMORY CHIP IN EM TOOL. RUN BACK IN HOLE WITH OUT EM TOOL.
	12:00 - 13:30	1.50	DRLPRO	06	A	P		TRIP IN HOLE TO 2800'. INSTALL ROT HEAD RUBBER. CIRC TO CLEAN ON FLOAT. NO FLOW ON FLOW CHECK.
	13:30 - 15:00	1.50	DRLPRO	09	A	P		SLIP AND CUT DRILL LINE.
	15:00 - 18:00	3.00	DRLPRO	06	A	P		TRIP IN HOLE. NO TIGHT HOLE. NO LOSSES ON TRIP IN. BREAK CIRC 6790'. TRIP IN HOLE TO 10457'. STICKY HOLE ON BOTTOM.
	18:00 - 18:30	0.50	DRLPRO	03	D	P		WASH AND AND REAM 10457'-10540'. 10-15' FLARE ON BOTTOMS UP FOR 25 MIN. MUD IN 11.9/50 MUD OUT 11.9/48 10% LCM.
	18:30 - 0:00	5.50	DRLPRO	02	D	P		DRILL 10540'-10707' (167', 30'/HR) WOB 17-20K AVE WOB-19. RPM-50. DH RPM-66. SPM-88. GPM-431 ON/OFF PSI-2750/2450. DIFF-300. ON/OFF TORQUE-5000/11000. UP/DOWN/ROT-231/175/218. DRAG-13K. MUD IN 45/11.9. 7% LCM. MUD OUT 45/11.9 10%. 0' SLIDE. 100% ROT. 2' CONNECTION FLARE.

US ROCKIES REGION
Operation Summary Report

Well: FEDERAL 920-23P		Spud Conductor: 1/9/2010		Spud Date: 1/30/2010	
Project: UTAH-UINTAH		Site: FEDERAL 920-23P			Rig Name No: PROPETRO/, SST 54/54
Event: DRILLING		Start Date: 1/20/2010		End Date: 10/11/2011	
Active Datum: RKB @4,869.00usft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/7/2011	0:00 - 16:30	16.50	DRLPRO	02	D	P		DRILL 10707'-11028' (321', 19'/HR) WOB 17-25K AVE WOB-23. RPM-45-50. DH RPM-66. SPM-88. GPM-431 ON/OFF PSI-2700/2500. DIFF-200. ON/OFF TORQUE-4500/11000. UP/DOWN/ROT-231/175/220. DRAG-11K. MUD IN 50/11.9. 7% LCM. MUD OUT 49/11.9 8%. 0' SLIDE. 100% ROT. 5-10' FLARE ON BOTTOMS UP
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE. FUNCTION PIPE RAMS. SERVICE TOP DRIVE.
	17:00 - 0:00	7.00	DRLPRO	02	D	P		DRILL 11028'- 11133' (426', 15'/HR) WOB 17-25K AVE WOB-23. RPM-45-50. DH RPM-70. SPM-90. GPM-441 ON/OFF PSI-2750/2500. DIFF-250. ON/OFF TORQUE-5500/13000. UP/DOWN/ROT-240/175/222. DRAG-18K. MUD IN 46/12.1. 7% LCM. MUD OUT 49/11.9 8%. 0' SLIDE. 100% ROT. 5-10' FLARE ON BOTTOMS UP. (SLIGHT HOLE SEEPAGE AT 11038'. LOSS 20 BBLs)
10/8/2011	0:00 - 17:30	17.50	DRLPRO	02	D	P		DRILL 11133'-11504' (371', 21.2'/HR) WOB 20-25K AVE WOB-23. RPM-45-50. DH RPM-70. SPM-90. GPM-441 ON/OFF PSI-2900/2700. DIFF-200. ON/OFF TORQUE-6000/13500. UP/DOWN/ROT-244/185/226. DRAG-18K. MUD IN 48/12.6. 8% LCM. MUD OUT 48/12.3 8%. 0' SLIDE. 3' FLARE ON CONNECTIONS. 30'+ FLARE FROM 11440-11450' FORMATION W/ 12.4 MUD WT. (BOP DRILL 2 MIN.)
	17:30 - 18:00	0.50	DRLPRO	07	A	P		SERVICE RIG. SERVICE TOP DRIVE. GREASE CROWN
	18:00 - 18:30	0.50	DRLPRO	02	D	P		DRILL 11504'-11536' (32', 64'/HR) TD 10/8/2011 18:30. WOB 20-25K AVE WOB-23. RPM-45-50. DH RPM-70. SPM-90. GPM-441 ON/OFF PSI-2900/2700. DIFF-200. ON/OFF TORQUE-6000/13500. UP/DOWN/ROT-244/185/226. DRAG-18K. MUD IN 48/12.6+. 8% LCM. MUD OUT 49/12.4 8%. 0' SLIDE. 4-5' FLARE FROM DOWN TIME GAS.
	18:30 - 19:30	1.00	EVALPR	05	A	P		CIRC BOTTOMS UP. MUD IN 12.7/48 8%. MUD OUT 12.4/48 8%. NO FLARE. MIX 30 BBL 14.2# PILL AND PUMP FOR DRY JOB. (BOP DRILL WHILE TRIPPING 2 MIN)
	19:30 - 0:00	4.50	EVALPR	06	E	P		WIPER TRIP TO SHOE. NO TIGHT HOLE. 263K TOTAL. 37K DRAG OFF BOTTOM. HOLE TOOK PROPER FLUID. NO FLOW ON FLOW CHECK AT SHOE. TRIPPING IN HOLE @ 5500'.
10/9/2011	0:00 - 2:00	2.00	EVALPR	06	E	P		WIPER TRIP BACK TO BOTTOM. NO TIGHT HOLE AND NO FILL. NO FLOW ON MUD CHECKS. BROKE CIRC 7155'.
	2:00 - 4:00	2.00	EVALPR	05	A	P		CIRC AND CONDION HOLE. 30' FLARE ON BOTTOMS UP. MUD IN 12.8/49 8%. MUD OUT 12.6/50 8%. MIX 30 BBL 14.3# PILL AND PUMP FOR DRY JOB.

US ROCKIES REGION

Operation Summary Report

Well: FEDERAL 920-23P			Spud Conductor: 1/9/2010			Spud Date: 1/30/2010				
Project: UTAH-UINTAH			Site: FEDERAL 920-23P				Rig Name No: PROPETRO/, SST 54/54			
Event: DRILLING			Start Date: 1/20/2010					End Date: 10/11/2011		
Active Datum: RKB @4,869.00usft (above Mean Sea Level)			UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0							
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation		
10/10/2011	4:00 - 10:00	6.00	EVALPR	06	B	P		TRIP OUT OF HOLE FOR LOGS. PULL 259 K OFF BOTTOM. 33K OVER. NO TIGHT HOLE ON TRIP OUT. HOLE TAKING PROPER FLUID. NO FLOW ON FLOW CHECKS. PULL ROT HEAD RUBBER AT HWDP. HOLD SAFETY MEETING. LD MONELS. BREAK BIT AND LD MOTOR. CLEAR CATWALK FOR BAKER ATLAS. FUNCTION PIPE RAMS AND BLIND RAMS. (BOP DRILL WHILE TRIPPING 2 MIN)		
	10:00 - 16:00	6.00	EVALPR	11	D	P		HOLD SAFETY MEETING. RIG UP BAKER ATLAS. RUN TRIPLE COMBO LOGS FROM 11538' TO 2704'. LD TRIPLE COMBO TOOLS AND RIG DOWN BAKER ATLAS.		
	16:00 - 20:00	4.00	CSG	06	D	P		MAKE UP BIT SUB AND BIT. TRIP IN HOLE WITH HWDP. INSTALL ROT HEAD RUBBER. TRIP IN HOLE WITH GOOD DISPLACEMENT. NO TIGHT HOLE ON TRIP IN. FILLED PIPE 2700', 5800'. NO FILL ON BOTTOM OF HOLE. (BOP DRILL WHILE TRIPPING 2 MIN)		
	20:00 - 21:30	1.50	CSG	05	A	P		CIRC GAS OUT 20-25' FLARE. HOLD SAFETY MEETING WITH KIMZEY LAYDOWN CREW AND RIG UP LAYDOWN MACHINE. BUILD 30 BBL 13.9# PILL AND PUMP FOR DRY JOB.		
	21:30 - 0:00	2.50	CSG	06	D	P		LAY DOWN DRILL PIPE TO 7100'. 261K PULL OFF BOTTOM. 34K OVER. NO TIGHT HOLE. HOLE TAKING PROPER FLUID.		
	0:00 - 6:00	6.00	CSG	06	D	P		LAY DOWN DRILL STRING. PULL ROT HEAD RUBBER. LAY DOWN HWDP. PULL WEAR BUSHING. WORK PIPE RAMS.		
	6:00 - 7:30	1.50	CSG	12	A	P		HOLD SAFETY MEETING.REMOVE RIG ELEVATORS. REMOVE RIG BAILS. MOVE PIPE RACKS. TURN PIPE TROUGH. INSTALL 18' BAILS. RIG UP CSG ELEVATORS, HYDRAULIC CSG TONGS, BACK UP TONGES AND SLIPS.		
	7:30 - 9:30	2.00	CSG	12	C	P		MAKE UP WEATHERFORD FLOAT SHOE. AND FLOAT COLLAR W/ BAKER LOCK. RUN IN HOLE WITH 21 JTS THAT NEEDED COLLARS TIGHTENED ALSO. MADE UP ALL PIPE 1/2 THROUGH TRIANGLE.		
	9:30 - 17:30	8.00	CSG	12	C	P		RUN TOTAL OF 272 JTS OF 4.5" 11.6# P-110 BTC CSG. FLOAT SHOE SET @ 11519'KB. FLOAT COLLAR SET AT 11474'KB. MESA MARKER SET AT 8244' KB. WASATCH MARKER SET @ 4974' KB. RAN CENTRALIZERS FIRST THREE JTS THEN EVERY THIRD JT FOR TOTAL OF 15		
	17:30 - 19:00	1.50	CSG	05	D	P		CENTRALIZERS. (TORQUE RANGES FROM 6800 TO 10000) AVERAGE TORQUE 7500. INSTALL CEMENT HEAD. FILL CSG 800', 2000', 6000'. CIRC OUT GAS @ 367 GPM. MUD WT 12.9 VIS 48 LCM 7%. 15-20' FLARE ON BOTTOMS UP. (NO LOSSES) HOLD SAFETY MEETING. RIG DOWN CSG CREW AND LD TRUCK. HOLD SAFETY MEETING AND RIG UP BJ CEMENTERS.		

US ROCKIES REGION
Operation Summary Report

Well: FEDERAL 920-23P			Spud Conductor: 1/9/2010			Spud Date: 1/30/2010		
Project: UTAH-UINTAH			Site: FEDERAL 920-23P			Rig Name No: PROPETRO/, SST 54/54		
Event: DRILLING			Start Date: 1/20/2010			End Date: 10/11/2011		
Active Datum: RKB @4,869.00usft (above Mean Sea Level)			UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	19:00 - 22:30	3.50	CSG	12	E	P		PERFORM POP OFF TEST TO 4500. LINE TEST TO 5500 PSI. PUMP 5 BBLS OF FRESH WATER. PUMP (20 SX) 8 BBLS OF 11.9# 2.31 YD 12.93 GAL/SK SCAVENGER CEMENT. PUMP (751SX) 242 BBLS OF 12.9# 1.81 YD 9.14 GAL/SK LEAD CEMENT. PUMP (1721 SX) 401 BBLS 14.3# 1.31 YD 5.9 GAL/SK TAIL CEMENT. SHUT DOWN. CLEAN UP LINES. DROP PLUG AND DISPLACE W/ 178.3 BBLS OF FRESH WATER. GOOD RETURNS THROUGH OUT JOB TILL DISPLACEMENT. LOST HALF RETURNS ON DISPLACEMENT. 40 BBLS OF CONTAMINATED MUD AND THEN 10 BBLS OF CEMENT TO SURFACE. LOSS CIRCULATION LAST 10 BBLS OF DISPLACEMENT. HAD LIFT PSI OF 3560. BUMP PLUG. HELD 4400 PSI FOR 5 MINS. CHECKED FLOATS AND FLOATS HELD. RIGGED DOWN BJ SERVICE.
	22:30 - 0:00	1.50	CSG	14	A	P		PICK UP STACK W/ TROLLEY. NOT ENOUGH ROOM TO SET STACK UNDER BOP. SET BACK DOWN STACK AND PULL ROT HEAD RUBBER. SET C-22 SLIPS THROUGH STACK W/ 105K. PICK UP STACK W/TH TROLLEY AND CUT OFF CSG. CLEANING PITS AT RT. (5 EXTRA HANDS AT 05:30 TO HELP READY RIG FOR TRUCKS IN A.M.)
10/11/2011	0:00 - 2:00	2.00	RDMO	14	A	P		CLEAN PITS AND RELEASE RIG 10/11/2011 02:00

US ROCKIES REGION
Operation Summary Report

Well: FEDERAL 920-23P		Spud Conductor: 1/9/2010		Spud Date: 1/30/2010	
Project: UTAH-UINTAH		Site: FEDERAL 920-23P		Rig Name No: PROPETRO/, SST 54/54	
Event: DRILLING		Start Date: 1/20/2010		End Date: 10/11/2011	
Active Datum: RKB @4,869.00usft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	2:00 - 2:00	0.00	RDMO					<p>CONDUCTOR CASING: Cond. Depth set:44 Cement sx used:20</p> <p>SPUD DATE/TIME:1/30/2010 0:00</p> <p>SURFACE HOLE: Surface From depth:44 Surface To depth:2,740 Total SURFACE hours:36.00 Surface Casing size:8.625, 32# # of casing joints ran:64 Casing set MD:2,704.0 # sx of cement:610 Cement blend (ppg.):15.8/11.0/15.8 Cement yield (ft3/sk):1.15/3.82/1.15 # of bbls to surface:1 Describe cement issues:NONE Describe hole issues:NONE</p> <p>PRODUCTION: Rig Move/Skid start date/time:9/25/2011 3:00 Rig Move/Skid finish date/time:9/29/2011 21:00 Total MOVE hours:114.0 Prod Rig Spud date/time:9/30/2011 16:00 Rig Release date/time:10/11/2011 2:00 Total SPUD to RR hours:251.0 Planned depth MD11,512 Planned depth TVD11,512 Actual MD:11,536 Actual TVD:11,531 Open Wells \$: AFE \$ Open wells \$/ft:</p> <p>PRODUCTION HOLE: Prod. From depth:2,740 Prod. To depth:11,536 Total PROD hours: 152 Log Depth:11538 Float Collar Top Depth:11474 Production Casing size:4 1/2 # of casing joints ran:272 Casing set MD:11,519.0 Stage 1 # sx of cement:2,492 Cement density (ppg.):SCAV 11.9/LEAD 12.9/TAIL 14.3 Cement yield (ft3/sk):SCAV 2.31/LEAD 1.81/TAIL 1.31 Est. TOC (Lead & Tail) or 2 Stage :LEAD 19'/TAIL 4517' Describe cement issues:40 BBLs OF CONTAMINATED MUD. LOSS2/3 CIRC THROUGH DISPLACEMENT. 10 BBLs CEMENT TO SURFACE Describe hole issues:RIG MOVE FROM GRANGER</p>

US ROCKIES REGION
Operation Summary Report

Well: FEDERAL 920-23P		Spud Conductor: 1/9/2010		Spud Date: 1/30/2010	
Project: UTAH-UINTAH		Site: FEDERAL 920-23P		Rig Name No: PROPETRO/, SST 54/54	
Event: DRILLING		Start Date: 1/20/2010		End Date: 10/11/2011	
Active Datum: RKB @4,869.00usft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								WYOMING.EXCEL UNABLE TO GET SURVEYS ON BOTTOM OF HOLE. DIRECTIONAL INFO: KOP:0 Max angle:3.40 Departure: Max dogleg MD:3.96 @ 3155'.

1 General**1.1 Customer Information**

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	FEDERAL 920-23P	Wellbore No.	OH
Well Name	FEDERAL 920-23P	Wellbore Name	FEDERAL 920-23P
Report No.	1	Report Date	10/21/2011
Project	UTAH-UINTAH	Site	FEDERAL 920-23P
Rig Name/No.		Event	COMPLETION
Start Date	10/21/2011	End Date	11/9/2011
Spud Date	1/30/2010	Active Datum	RKB @4,869.00usft (above Mean Sea Level)
UWI	SE/SE/O/9/S/20/E/23/O/O/26/PM/S/840.00/E/O/501.00/O/O		

1.3 General

Contractor	JW WIRELINE	Job Method	PERFORATE	Supervisor	STEVE WALL, SR.
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

Fluid Type		Fluid Density		Gross Interval	8,907.0 (usft)-11,330.0 (usft)	Start Date/Time	11/7/2011 12:00AM
Surface Press		Estimate Res Press		No. of Intervals	34	End Date/Time	11/8/2011 12:00AM
TVD Fluid Top		Fluid Head		Total Shots	0	Net Perforation Interval	51.00 (usft)
Hydrostatic Press		Press Difference		Avg Shot Density	0.00 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL					Final Press Date	

1.5 Summary**2 Intervals****2.1 Perforated Interval**

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/8/2011 12:00AM	MESAVERDE/			8,907.0	8,908.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

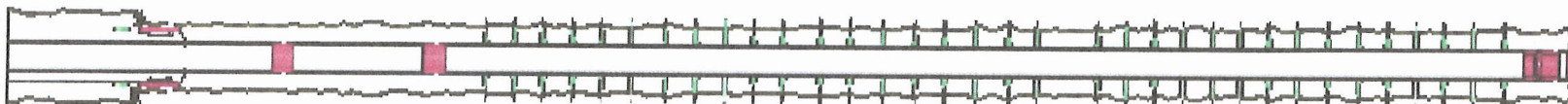
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/8/2011 12:00AM	MESAVERDE/			8,928.0	8,929.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			8,944.0	8,945.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			8,984.0	8,986.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			9,009.0	9,010.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			9,056.0	9,057.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			9,202.0	9,203.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			9,274.0	9,276.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			9,304.0	9,305.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			9,326.0	9,327.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			9,356.0	9,358.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			9,584.0	9,586.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			9,630.0	9,632.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			9,752.0	9,754.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			9,850.0	9,852.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			9,879.0	9,880.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			9,961.0	9,962.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			10,084.0	10,085.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			10,104.0	10,106.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			10,949.0	10,950.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			10,960.0	10,962.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			10,970.0	10,972.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
11/7/2011 12:00AM	MESAVERDE/			10,984.0	10,985.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			11,017.0	11,018.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			11,024.0	11,026.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			11,050.0	11,052.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			11,060.0	11,062.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/7/2011 12:00AM	MESAVERDE/			11,123.0	11,125.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			11,209.0	11,210.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			11,219.0	11,220.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			11,228.0	11,230.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			11,240.0	11,242.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			11,260.0	11,262.0			0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
11/8/2011 12:00AM	MESAVERDE/			11,329.0	11,330.0			0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: FEDERAL 920-23P			Spud Conductor: 1/9/2010			Spud Date: 1/30/2010		
Project: UTAH-UINTAH			Site: FEDERAL 920-23P			Rig Name No:		
Event: COMPLETION			Start Date: 10/21/2011			End Date: 11/9/2011		
Active Datum: RKB @4,869.00usft (above Mean Sea Level)			UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
10/21/2011	10:00 - 15:30	5.50	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 16 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 17 PSI. 1ST PSI TEST T/ 9000 PSI. HELD FOR 30 MIN LOST 67 Psi. NO COMMUNICATION WITH SURFACE CSG BLEED OFF PSI. SWI REPAIRED TOP FRAC VALVE BETWEEN 3500 PSI TEST & 9000 PSI TEST HSM, RIGGING DWN & RIGGING UP.
10/31/2011	7:00 - 7:30	0.50	COMP	48		P		RD OFF NBU 922-29KT, MIRU, ND FV, NU BOPS, RU FLOOR.
	7:30 - 12:30	5.00	COMP	30	A	P		TALLY & PU 37/8 BIT & 170 JTS 23/8 L-80 OFF FLOAT, EOT @ 5403' SWI SDFN.
	12:30 - 17:00	4.50	COMP	31	I	P		HSM, PINCH POINTS & EMERGENCY RESPONSE
11/1/2011	7:00 - 7:30	0.50	COMP	48		P		PU REM 108 JTS 23/8 L-80 OFF FLOAT TOTAL 278 JTS IN EOT @ 8826'. POOH L/D BIT. ND BOPS NU FV, RU B&C TEST CSG TO 1,000 PSI, LOST 19 # PSI IN 15 MIN, TEST TO 3506# LOST 38 #PSI IN 15 MIN, TEST TO 9075 LOST 57 # PSI IN 30 MIN. RD B&C SWI SDFN.
	7:30 - 15:00	7.50	COMP	31	I	P		HSM, RIGGING UP & WORKING W/ WIRELINE.
11/2/2011	7:00 - 7:30	0.50	COMP	48		P		RU JW WIRELINE, WAIT ON ORDERS WHAT TO PERF.SDFN
	7:30 - 15:00	7.50	COMP	37	B	P		HSM, WORKING W/ WIRELINE & FRAC CREW.
11/3/2011	7:00 - 7:30	0.50	COMP	48		P		RU WELL HEAD TARPS & HEATER, (STG #1) RIH W/ 31/8 EXP 23 GRM .36" HOLES 90 & 120 DEG PHASING GUNS & PERF AS OF PROCEDURE. RU SUPERIOR, WAIT ON FRAC TREE, & PUMP TRUCK. RU SAME.
	7:30 - 16:00	8.50	COMP	46	E	P		PRIME PUMPS & LINES, TEST TO 9500 PSI, FOR 15 MIN LOST 30 PSI, SET POPOFF @ 8800 PSI, SET KICK OUTS @ #1 8600 PSI, #2 8600 PSI, #3 8600 PSI, #4 8600 PSI, #5 8800 PSI, #6 8800 PSI.
	16:00 - 19:30	3.50	COMP	36	E	P		(STG# 1) WHP 1800 PSI, BRK 4200 PSI @ 5 BPM. ISIP 3824 PSI, FG .78. SPOT ACID ON PERFS, SHUT DWN LET SOAK FOR 5 MIN. CALC HOLES OPEN @ 51.1 BPM @ 7579 PSI = 100% HOLES OPEN. MP 8255 PSI, MR 52.1 BPM, AP 7247 PSI, AR 50.0 BPM ISIP 3872 PSI, FG .78 NPI 48 PSI. SWI DRAIN UP SDFN

US ROCKIES REGION
Operation Summary Report

Well: FEDERAL 920-23P		Spud Conductor: 1/9/2010	Spud Date: 1/30/2010
Project: UTAH-UINTAH	Site: FEDERAL 920-23P		Rig Name No:
Event: COMPLETION	Start Date: 10/21/2011	End Date: 11/9/2011	
Active Datum: RKB @4,869.00usft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/4/2011	6:00 - 10:30	4.50	COMP	37	B	P		HSM, WORKING W/ WIRELINE, (STG #2) PU 41/2 HAL 10-K CBP & 31/8 EXP 23 GRM .36" HLS, 120 DEG PHASING, SET DOWN @ 10, 300' PULLED UP TO 10,250' PLUG HUNG UP, WORK TRYING TO GET FREE NO LUCK, PUMP 10 BBLS WTR PAST PLUG @ 1.5 BPM @ 3400 PSI, WORK PLUG, STILL STUCK SURGED WELL SEVERAL TIMES PLUG STILL STUCK, SET PLUG @ 10,250', POOH L/D GUNS & SETTING TOOL, RD WIRELINE.
	10:30 - 17:30	7.00	COMP	31	I	P		BLEAD OFF WELL, ND FV, NU BOPS, RU FLOOR, RIH W/ 3 7/8 BIT & POBS, 1.875 X/N & 278 JTS 23/8 L-80 F/ DERICK, PU 47 JTS TAG UP @ 10,298' S.L.M, RU DRLG EQUIP, BROKE CIRC CONV, TEST BOPS TO 3,000# FOR 15 MIN, D/O CBP IN 30 MIN 2,000# PSI INCREASE. LET CSG FLOW TO CLEAN UP. SWM LOCK RAMS.
11/5/2011	7:00 - 7:15	0.25	COMP	48		P		JSA-SAFETY MEETING, TRIP TBG W/ PRESSURE, 1750# ON CSG, BLOW DN TO PIT, GOT PRESSURE DN TO 500#, TIH W/ 2 3/8" TBG PUSH CBP DN TO @ 11,375',
	7:15 - 8:00	0.75	COMP	31	I	P		TOOH W/ BLOW CSG TO PIT, LAY DN 80 JTS ON TRAILER, PULLED TO 3000', PUMP 60 BBLS 10# BRINE WTR, PULLED TO @ 600', WELL FLOWING OUT CSG W/ PRESSURE UP TO 700#, SHUT BOPS, LET WELL BLOW DN TO PIT, PUMP 60 BBLS 10# BRINE WTR, P/O LAST 10 STANDS, LAY DN BIT
	8:00 - 12:30	4.50	COMP	31	I	P		PUMP 70 BBLS FRESH WTR DN CSG TRY TO FLUSH CSG, PRESSURE UP OVER 3000#, RIG PUMP DOWN TO PUMPING LESS THEN 1 BBL/ MIN, IT TAKE 175 BBLS TO FLUSH CSG, SHUT DOWN SHUT WELL IN, WAIT TILL MONDAY HAVE SUPERIOR FLUSH CSG BEFORE WIRELINE RIH SET CBP, R/U J/W WIRELINE, SDFWE,
11/7/2011	12:30 - 15:00	2.50	COMP	31	I			HSM, WORKING WITH PRESSURE.
	6:30 - 7:00	0.50	COMP	48		P		SICP 3600 PSI, RU SUPERIOR INTO BOPS, REFLUSH CSG W/ 174 BBLS @ 10.3 BPM @ 5300 PSI.
	7:00 - 8:00	1.00	COMP	36	E	P		RU 10-K LUBRICATOR, RIH W/ 41/2 10-K CBP & SET @ 11,155' POOH BLEAD OFF WELL. ND BOPS, NU FV, RU FRAC TREE.
	8:00 - 12:00	4.00	COMP	34	I	P		STG #2) PU 41/2 HAL 10-K CBP & 31/8 EXP 23 GRM .36" HLS. 120 DEG PHASING, PERF AS OF PROCEDURE.
	12:00 - 15:19	3.32	COMP	36	E	P		WHP 1800 PSI, BRK 5190 PSI @ 15 BPM. ISIP 3456 PSI, FG .75.
								CALC HOLES OPEN @ 44.6 BPM @ 6998 PSI = 65% HOLES OPEN.
								MP 8388 PSI, MR 51.0 BPM, AP 7394 PSI, AR 48.9 BPM
								ISIP 3597 PSI, FG .76 NPI 141 PSI.

US ROCKIES REGION
Operation Summary Report

Well: FEDERAL 920-23P		Spud Conductor: 1/9/2010		Spud Date: 1/30/2010	
Project: UTAH-UINTAH		Site: FEDERAL 920-23P			Rig Name No:
Event: COMPLETION		Start Date: 10/21/2011		End Date: 11/9/2011	
Active Datum: RKB @4,869.00usft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/8/2011	15:19 - 17:43	2.40	COMP	36	E	P		(STG #3) PU 41/2 HAL 10-K CBP & 31/8 EXP 23 GRM .36" HLS, 90 DEG PHASING, SET CBP @ 11,010' PERF AS OF PROCEDURE. WHP 554 PSI, BRK 4383 PSI @ 7.1 BPM. ISIP 4036 PSI, FG .81. CALC HOLES OPEN @ 50.3 BPM @ 7907 PSI = 81% HOLES OPEN. MP 8256 PSI, MR 51.1 BPM, AP 7751 PSI, AR 50.5 BPM ISIP 3660 PSI, FG .77 NPI - 376 PSI. SAND WAS SHORT ON REPORT, BUT WAS PUMPED, DUE TO SREW ADJUSTMENT. APROX 34,000 LBS
	17:43 - 19:30	1.78	COMP	34	H	P		(STG #4) PU 41/2 HAL 8-K CBP & 31/8 EXP 23 GRM .36" HLS, 90 & 120 DEG PHASING, SET CBP @ 10,136' PERF AS OF PROCEDURE. POOH SWM SDFN.
	7:00 - 7:38	0.63	COMP	48		P		HSM W/ SUPERIOR, CHANGING POP OFF & KICK OUTS. (STG #4) WHP 1800 PSI, BRK 3166 PSI @ 36.1 BPM. ISIP 2741 PSI, FG .71. CALC HOLES OPEN @ 36.1 BPM @ 5918 PSI = 95% HOLES OPEN. MP 8388 PSI, MR 51.0 BPM, AP 7394 PSI, AR 48.9 BPM ISIP 3597 PSI, FG .76 NPI 141 PSI.
	7:38 - 9:26	1.80	COMP	36	E	P		(STG #5) PU 41/2 HAL 8-K CBP & 31/8 EXP 23 GRM .36" HLS, 90 DEG PHASING, SET CBP @ 9784'. PERF AS OF PROCEDURE. WHP 1760 PSI, BRK 3479 PSI @ 5.1 BPM. ISIP 2349 PSI, FG .68. CALC HOLES OPEN @ 42.4 BPM @ 6279 PSI = 97% HOLES OPEN. MP 6524 PSI, MR 58.0 BPM, AP 6093 PSI, AR 48.2 BPM ISIP 3021 PSI, FG .75 NPI 672 PSI.
	9:26 - 11:20	1.90	COMP	36	E	P		(STG #5) PU 41/2 HAL 8-K CBP & 31/8 EXP 23 GRM .36" HLS, 90 & 120 DEG PHASING, SET CBP @ 9388', PERF AS OF PROCEDURE. WHP 1620 PSI, BRK 2788 PSI @ 5.0 BPM. ISIP 2343 PSI, FG .69. CALC HOLES OPEN @ 49.6 BPM @ 6900 PSI = 100% HOLES OPEN. MP 6198 PSI, MR 59.5 BPM, AP 5691 PSI, AR 49.4 BPM ISIP 2979 PSI, FG .76 NPI 636 PSI.

US ROCKIES REGION
Operation Summary Report

Well: FEDERAL 920-23P		Spud Conductor: 1/9/2010		Spud Date: 1/30/2010	
Project: UTAH-UINTAH		Site: FEDERAL 920-23P			Rig Name No:
Event: COMPLETION		Start Date: 10/21/2011		End Date: 11/9/2011	
Active Datum: RKB @4,869.00usft (above Mean Sea Level)		UWI: SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/501.00/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:20 - 13:00	1.67	COMP	36	E	P		(STG #7) PU 41/2 HAL 8-K CBP & 31/8 EXP 23 GRM .36" HLS, 90 & 120 DEG PHASING, SET CBP @ 9087', PERF AS OF PROCEDURE. WHP 1671 PSI, BRK 2262 PSI @ 5.0 BPM. ISIP 2318 PSI, FG .70. CALC HOLES OPEN @ 48 BPM @ 5818 PSI = 100% HOLES OPEN. MP 6434 PSI, MR 49.5 BPM, AP 5897 PSI, AR 45 BPM ISIP 2927 PSI, FG .76 NPI 609 PSI.
	13:00 - 14:30	1.50	COMP	34	I	P		TOTAL 266,338 LBS 30/50 TLC TOTAL 80,016 30/50 WHITE TOTAL 16,585 BBLS WATER TOTAL 1007 GALS SCALE INH TOTAL 458 GALS BIOCID
	14:30 - 18:00	3.50	COMP	31	I			(KILL PLUG) RIH W/ 41/2 8-K CBP & SET @ 8857', POOH SWI, RD WL & FRAC CREW.
11/9/2011	7:00 - 7:30	0.50	COMP	48		P		ND FV, NU BOPS, RU FLOOR. RIH W/ 37/8 BIT, POBS 1.875 X/N & TBG 278 JTS TO KILL PLUG, RU DRLG EQUIP PREP TO D/O IN AM. HSM, WOTKING W/ POWER SWIVEL & WORKING UNDER PRESSURE.

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	FEDERAL 920-23P	Wellbore No.	OH
Well Name	FEDERAL 920-23P	Common Name	FEDERAL 920-23P
Project	UTAH-UINTAH	Site	FEDERAL 920-23P
Vertical Section		North Reference	True
Azimuth			
Origin N/S		Origin E/W	
Spud Date	1/30/2010	UWI	SE/SE/0/9/S/20/E/23/0/0/26/PM/S/840.00/E/0/50 1.00/0/0
Active Datum	RKB @4,869.00usft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	PROPETRO
Started	1/29/2010	Ended	
Tool Name	MSS	Engineer	Anadarko

2.1.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
14.00	0.00	0.00	14.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
1/29/2010	Tie On	14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/30/2010	NORMAL	1,514.00	1.80	87.30	1,513.75	1.11	23.53	1.11	0.12	0.12	0.00	87.30
	NORMAL	1,994.00	1.20	47.80	1,993.60	4.84	34.79	4.84	0.24	-0.13	-8.23	-138.87
1/31/2010	NORMAL	2,694.00	2.20	78.10	2,693.29	12.54	53.37	12.54	0.19	0.14	4.33	57.77

2.2 Survey Name: PRODUCTION

Survey Name	PRODUCTION	Company	EXCEL
Started	9/25/2011	Ended	
Tool Name	MWD	Engineer	Anadarko Employee

2.2.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
2,694.00	2.20	78.10	2,693.29	12.54	53.37

2.2.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
9/25/2011	Tie On	2,694.00	2.20	78.10	2,693.29	12.54	53.37	12.54	0.00	0.00	0.00	0.00

2.3 Survey Name: PRODUCTION

Survey Name	PRODUCTION	Company	EXCEL
Started	9/25/2011	Ended	
Tool Name	MWD	Engineer	Anadarko Employee

2.3.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
2,694.00	2.20	78.10	2,693.29	12.54	53.37

2.3.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
9/25/2011	Tie On	2,694.00	2.20	78.10	2,693.29	12.54	53.37	12.54	0.00	0.00	0.00	0.00
9/30/2011	NORMAL	2,774.00	1.80	62.20	2,773.25	13.44	55.98	13.44	0.85	-0.50	-19.88	-133.56
	NORMAL	2,868.00	2.70	44.10	2,867.17	15.72	58.83	15.72	1.21	0.96	-19.26	-47.57
	NORMAL	2,964.00	2.70	34.10	2,963.07	19.21	61.67	19.21	0.49	0.00	-10.42	-94.99
	NORMAL	3,060.00	2.50	39.30	3,058.97	22.71	64.26	22.71	0.32	-0.21	5.42	132.87
	NORMAL	3,155.00	2.90	311.30	3,153.90	25.90	63.77	25.90	3.96	0.42	-92.63	-129.58
	NORMAL	3,256.00	2.50	305.90	3,254.79	28.87	60.06	28.87	0.47	-0.40	-5.35	-150.22
10/1/2011	NORMAL	3,357.00			3,355.66	31.98	56.23	31.98	28.33	-28.33	0.00	180.00
	NORMAL	3,727.00	2.20	245.30	3,725.26	29.34	40.10	29.34	0.59	-0.42	-9.79	-140.35
	NORMAL	3,823.00	2.40	239.10	3,821.18	27.54	36.71	27.54	0.33	0.21	-6.46	-54.33
	NORMAL	3,918.00	2.00	241.70	3,916.11	25.73	33.54	25.73	0.43	-0.42	2.74	167.29
	NORMAL	4,014.00	1.90	234.80	4,012.06	24.02	30.76	24.02	0.27	-0.10	-7.19	-116.49
	NORMAL	4,110.00	1.90	233.40	4,108.01	22.15	28.19	22.15	0.05	0.00	-1.46	-90.70
	NORMAL	4,205.00	2.30	236.80	4,202.94	20.17	25.33	20.17	0.44	0.42	3.58	19.00
	NORMAL	4,300.00	2.20	231.50	4,297.87	17.99	22.30	17.99	0.24	-0.11	-5.58	-118.30
	NORMAL	4,396.00	1.90	214.80	4,393.81	15.54	19.95	15.54	0.69	-0.31	-17.40	-124.85
	NORMAL	4,491.00	1.60	198.40	4,488.76	12.99	18.64	12.99	0.61	-0.32	-17.26	-128.94
	NORMAL	4,586.00	1.70	192.50	4,583.72	10.35	17.91	10.35	0.21	0.11	-6.21	-62.49
	NORMAL	4,681.00	1.80	177.00	4,678.68	7.49	17.69	7.49	0.51	0.11	-16.32	-85.89
	NORMAL	4,776.00	1.90	167.60	4,773.63	4.46	18.10	4.46	0.34	0.11	-9.89	-76.50
	NORMAL	4,872.00	1.70	173.90	4,869.58	1.49	18.59	1.49	0.29	-0.21	6.56	138.42
	NORMAL	4,958.00	2.00	167.40	4,955.54	-1.25	19.06	-1.25	0.43	0.35	-7.56	-38.25
	NORMAL	5,063.00	1.90	165.80	5,060.48	-4.72	19.88	-4.72	0.11	-0.10	-1.52	-152.23
	NORMAL	5,158.00	2.20	156.10	5,155.42	-7.92	21.01	-7.92	0.48	0.32	-10.21	-54.07
	NORMAL	5,253.00	2.10	150.20	5,250.35	-11.09	22.61	-11.09	0.26	-0.11	-6.21	-117.24
	NORMAL	5,349.00	1.60	154.40	5,346.30	-13.83	24.07	-13.83	0.54	-0.52	4.38	166.92
	NORMAL	5,444.00	1.60	160.20	5,441.26	-16.27	25.09	-16.27	0.17	0.00	6.11	92.90
	NORMAL	5,539.00	1.80	154.70	5,536.22	-18.87	26.18	-18.87	0.27	0.21	-5.79	-41.98
	NORMAL	5,635.00	1.80	154.30	5,632.17	-21.59	27.47	-21.59	0.01	0.00	-0.42	-90.20
	NORMAL	5,731.00	1.60	156.60	5,728.13	-24.18	28.66	-24.18	0.22	-0.21	2.40	162.31
	NORMAL	5,826.00	1.50	152.50	5,823.10	-26.50	29.76	-26.50	0.16	-0.11	-4.32	-134.08
	NORMAL	5,922.00	1.10	152.00	5,919.07	-28.43	30.77	-28.43	0.42	-0.42	-0.52	-178.63
	NORMAL	6,017.00	1.20	160.60	6,014.05	-30.17	31.53	-30.17	0.21	0.11	9.05	64.26
	NORMAL	6,112.00	0.70	162.30	6,109.04	-31.66	32.04	-31.66	0.53	-0.53	1.79	177.62
	NORMAL	6,208.00	0.90	143.70	6,205.03	-32.83	32.66	-32.83	0.34	0.21	-19.38	-61.94
	NORMAL	6,302.00	0.90	164.60	6,299.02	-34.13	33.30	-34.13	0.35	0.00	22.23	100.45

2.3.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
10/1/2011	NORMAL	6,397.00	1.00	161.50	6,394.01	-35.64	33.76	-35.64	0.12	0.11	-3.26	-28.76
	NORMAL	6,778.00	1.30	165.40	6,774.93	-42.98	35.90	-42.98	0.08	0.08	1.02	16.58
10/1/2011	NORMAL	3,345.00	3.40	311.10	3,343.67	31.75	56.50	31.75	1.05	1.01	5.84	19.17
10/1/2011	NORMAL	3,441.00	3.20	268.50	3,439.62	31.92	53.89	31.92	3.81	3.81	0.00	268.50
10/1/2011	NORMAL	3,537.00	3.20	263.50	3,535.47	31.55	48.55	31.55	0.29	0.00	-5.21	-92.50
10/1/2011	NORMAL	3,632.00	2.60	254.60	3,630.34	30.67	43.84	30.67	0.79	-0.63	-9.37	-147.50
10/2/2011	NORMAL	7,351.00	1.00	163.40	7,347.79	-55.37	38.88	-55.37	0.33	-0.32	-4.63	-165.79
	NORMAL	7,256.00	1.30	167.80	7,252.81	-53.52	38.41	-53.52	0.01	0.00	0.50	91.20
	NORMAL	7,447.00	1.50	163.40	7,443.76	-57.38	38.48	-57.38	0.52	0.52	0.00	0.00
	NORMAL	7,542.00	1.10	168.00	7,538.74	-59.46	40.02	-59.46	0.43	-0.42	4.84	167.67
	NORMAL	7,638.00	1.10	157.90	7,634.72	-61.22	40.56	-61.22	0.20	0.00	-10.52	-95.05
	NORMAL	7,733.00	1.10	163.80	7,729.70	-62.94	41.16	-62.94	0.12	0.00	6.21	92.95
	NORMAL	7,829.00	1.00	157.10	7,825.69	-64.59	41.74	-64.59	0.16	-0.10	-6.98	-132.48
10/3/2011	NORMAL	7,924.00	1.00	163.00	7,920.67	-66.15	42.31	-66.15	0.11	0.00	6.21	92.95
	NORMAL	8,019.00	1.20	160.70	8,015.66	-67.88	42.88	-67.88	0.22	0.21	-2.42	-13.60
	NORMAL	8,114.00	1.10	157.80	8,110.64	-69.66	43.55	-69.66	0.12	-0.11	-3.05	-151.24
	NORMAL	8,210.00	1.30	157.20	8,206.62	-71.52	44.32	-71.52	0.21	0.21	-0.63	-3.89
	NORMAL	8,306.00	1.30	164.00	8,302.59	-73.57	45.04	-73.57	0.16	0.00	7.08	93.40
	NORMAL	8,496.00	1.30	161.30	8,492.54	-77.69	46.33	-77.69	0.03	0.00	-1.42	-91.35
10/4/2011	NORMAL	8,783.00	1.40	166.00	8,779.46	-84.17	48.22	-84.17	0.05	0.03	1.64	50.28
	NORMAL	9,261.00	1.20	162.30	9,257.34	-94.61	51.15	-94.61	0.05	-0.04	-0.77	-159.07
10/11/2011	NORMAL	11,536.00	1.20	162.30	11,531.84	-139.99	65.64	-139.99	0.00	0.00	0.00	0.00